IBM

Personal Systems Reference
IBM ThinkPad Notebooks
1992 to 2001 - *withdrawn*

January 2001 - Version 214

IBM ThinkPad® 240 - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 300, 366, or 400MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor on Ball Grid Array (H-PBGA)
L2 cache	**128KB / onboard (full speed)** / synchronous pipelined burst / ECC / write-back
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable
CD-ROM	*Option:* External CD-ROM / via Portable Drive Bay and 24X-10X[5] CD-ROM UltraslimBay Drive
DVD-ROM	*Option:* External DVD-ROM / via Portable Drive Bay and DVD-ROM UltraslimBay Drive

	✂ **2609-21U**	✂ **2609-31U**	✂ **2609-41U**
Processor	**Celeron 300MHz**	**Celeron 366MHz**	**Celeron 400MHz**
Disk - size / ms	**6.4GB**[4] / 13ms read / Ultra DMA/33 or PIO Mode 4		**12.0GB** / 12ms read / ATA-66 or PIO4
Preload (see side)	**Windows 98**[7]	**Windows 98**[7] **SE**	**Windows 98**[7] **SE**
Avail / withdrawn date	June 1999 / February 2000	November 1999 / February 2000	February 2000 / February 2001

Display - size and type	**10.4" TFT color** (264.16mm) **/ Active Matrix**
Display - technology	**SVGA** / 800x600 / 15ms refresh (typical) / 50 to 110 nits
	16.7 million simultaneous colors / 250 to 1 contrast (typical)

Graphics - controller	**NeoMagic™ MagicMedia128XD™** (NM2160C) / 128-bit accelerator / DDC2B / **2MB** / SGRAM (embedded) / color space conversion
Graphics - features	Simultaneous LCD and CRT[26] / 180 degree tilt / no multiple-monitor support / ext SVGA to 1024x768 with 65,536 colors

Memory - std / max	**64MB** / 192MB[33]
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit
	1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard

Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch

Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps

Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm
Weight[2]	Approximately 2.98 lbs (1.35 kg) with battery and disk
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic

Battery - type	Li-Ion (3 cell) / intelligent / left side
Battery - life[10]	*21U:* 1.9 hrs *31U:* 1.8 hrs *41U:* 1.7 hrs
	Optional 6 cell battery 3.8 hrs (21U) or 3.6 hrs (31U) or 3.4 hrs (41U)
Charge time[10]	3.5 hrs on / 3.0 hrs off

Architecture	**Intel 440DX PCIset / Intel 82371EB PIIX4M** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1211** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	None (all standard ports already on back of system)
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts

Video (TV) out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56K**[37] V.90 / integrated in system / Mini PCI Type IIIb / Lucent 1646 / not voice-capable
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex
Speaker	One internal speaker (.5 watt)
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / setup password / disk password / security keyhole

Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 (Model 21U) or Microsoft® Windows® 98 Second Edition (Model 31U and 41U)
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- ThinkPad on the Net
- Access ThinkPad
- IBM Update Connector
- RingCentral Fax
- IBM Registration
- IBM Global Network Dialer
- Netscape Communicator
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)
- ◇ Software Selections CD
- ◇ Lotus® SmartSuite Millennium CD
- ◇ Recovery CD-ROM (Windows 98)
- ◇ Recovery CD-ROM (Windows 95)[7]

Disks are S.M.A.R.T.[29] compliant

Color depth LCD		External Monitor				OPTIONS		FEATURES
Resolution	TFT	60Hz	70Hz	75Hz	85Hz	- 32MB SO DIMM 3.3v NP SDRAM	76H0294	Wired for Management 1.1a compliant
640x480	16M	16M	--	16M	16M	- 64MB SO DIMM 3.3v NP SDRAM	20L0241	DMI 2.0 compliant
800x600	16M	16M	--	16M	16M	- 128MB SO DIMM 3.3v NP SDRAM	01K1150	PC 98 compliant
1024x768*	64K	64K	64K	64K	--	- 12GB disk, 12ms read, ATA-66	05K9245	ACPI ready (APM enabled)
1280x1024	--	--	--	--	--	- High-capacity 6-cell Li-Ion Battery	02K6580	Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
						- Ultraslim 56 watt AC Adapter (3-prong)	02K6545	System Status Indicators
* Virtual screen mode on 10.4" LCD						- V.90 PC Card Modem with XJACK[24]	10L7393	Reset switch on bottom
						- V.90 56K PC Card Modem with Cellular Capability[24]	02K4196	Plug and Play 1.0a
All models:						- 10/100 Ethernet CardBus PC Card	08L3147	Standby, suspend, redisafe, and hibernation modes
- C: drive is FAT16 of 2GB						- 10/100 EtherJet plus 56K modem[37]	08L3167	
- D: drive is FAT32 of remaining space						- Turbo 16/4 Token-Ring PC Card II	34L1401	ENERGY STAR compliant
						- Smart Card Security Kit	33L5075	International Warranty Service[14]
Pressing F1 during startup brings up IBM BIOS Setup Utility						- IBM Portable Drive Bay (UltraslimBay)	37L1511	IBM SystemXtra®, [35]
						- Zip 100MB UltraslimBay Drive	37L1507	24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
						- SuperDisk LS-120 UltraslimBay Drive	20L1929	
						- DVD-ROM UltraslimBay Drive	05K8890	
						- 24X-10X CD-ROM UltraslimBay Drive	05K9122	
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)						- IBM MultiPort USB Hub	00N8215	
						- IBM ThinkPad Mobile Mouse	28L3670	

IBM ThinkPad® 240X - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 450MHz**[1] **or Intel Mobile Pentium® III 500MHz / 100MHz system bus**
L2 cache	*Celeron:* **128KB** / onboard (at processor speed); *Pentium III:* **256KB** / onboard (at processor speed)
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable
CD-ROM	*Option:* External via USB port or via Portable Drive Bay 2000 and 24X-10X[5] CD-ROM Ultrabay 2000 Drive
LS-120 and CD-RW	*Option:* External via Portable Drive Bay 2000 and drive option / no support for DVD in the Portable Drive Bay

Type-model	**2609-51U**	**2609-52U**	**2609-61U**	**2609-62U**
Processor	**Celeron 450MHz**	**Celeron 450MHz**	**Pentium III 500MHz**	**Pentium III 500MHz**
Disk - size / ms	**6.0GB**[4] / 13ms read / Ultra DMA/33 or PIO Mode 4		**12.0GB** / 12ms read / ATA-66 or PIO4	
Preload (see side)	**Windows 98**[7] **SE**	**Windows 2000**	**Windows 98**[7] **SE**	**Windows 2000**
Available date	June 2000	June 2000	June 2000	June 2000

Display - size and type	**10.4" TFT color** (264.16mm) **/ Active Matrix**
Display - technology	**SVGA** / 800x600 / 15ms refresh (typical) / 50 to 110 nits
	16.7 million simultaneous colors / 150 to 1 contrast (typical)
Graphics - controller	**Silicon Motion® Lynx EM+ SM712G™** / DDC2B /
	2MB / SGRAM (embedded) / color space conversion / multiple monitor support[26] for Windows 98
Graphics - features	Simultaneous LCD and CRT[26] / 180 degree tilt / external SVGA to 1024x768 with 65,536 colors
Memory - std / max	**64MB** / 192MB[33]
Memory - features	SDRAM / non-parity / **100MHz** / 3.3 volt / 64-bit
	1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm
Weight[2]	*51U/52U:* approximately 2.98 lbs (1.35 kg) with battery and disk
	61U/62U: approximately 3.28 lbs (1.49 kg) with battery and disk
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic
Battery - type	*51U/52U:* Li-Ion (3 cell); *61U/62U:* Li-Ion (6 cell); *All:* intelligent / left side
Battery - life[10]	*51U/52U:* 2.1 hrs *61U/62U:* 4.2 hrs
	51U/52U: Optional 6 cell battery for 4.2 hrs
Charge time[10]	3.5 hrs on / 3.0 hrs off
Architecture	**Intel 440MX PCIset (82443MX)** / combines Host Bridge and PIIX4 in single chip / TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	None (all standard ports already on back of system)
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	72 watt AC adapter
Video (TV) out	None
Data/fax modem	**56K**[37] V.90 / Mini PCI Type IIIb / Lucent 1646
Audio	16-bit SoundBlaster Pro™ support / CS4281 PCI audio / CS4297A AC97 codec
Speaker	One internal speaker (.5 watt)
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	Service upgrades available based on specific ThinkPad purchased

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Edition
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- Access ThinkPad
- IBM Update Connector
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Manageability Services (web)
✧ Software Selections CD
✧ Lotus® SmartSuite® Millennium CD
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- ConfigSafe
- Norton AntiVirus™ (OEM Version)
- IBM Update Connector
- Universal Manageability Services (web)
✧ Software Selections CD
✧ Lotus® SmartSuite® Millennium CD
✧ Recovery CD-ROM (Windows 2000)
✧ Recovery CD-ROM (Windows NT)[40]

Color depth LCD		External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768*	64K	64K	64K	64K	--
1280x1024	--	--	--	--	--

* Virtual screen mode on 10.4" LCD

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Pressing F1 during startup brings up IBM BIOS Setup Utility

Disks are S.M.A.R.T.[29] compliant

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128M SO DIMM 100MHz NP SDRAM	20L0255
- 12GB disk, 12ms read, ATA-66	05K9245
- High capacity 6-cell Li-Ion Battery	02K6580
- Ultraslim 72 watt AC Adapter	02K6699
- DC Auto Adapter	02K3381
- V.90 56K Intern Modem with GSM	02K4280
- 10/100 EtherJet™ CardBus Adapter	34L5301
- IBM 16/4 Token-Ring CardBus Adap	34L4801
- Smart Card Security Kit	33L5075
- IBM Portable Drive Bay 2000	19K4480
- IBM MultiPort USB Hub	00N8215
- IBM 340MB microdrive	00N8073
- IBM USB Portable CD-ROM Drive	33L5151
- IBM USB Mobile Mouse	33L3243
- IBM USB Numeric Keypad	33L3225

FEATURES

Toll-free hardware support during the warranty period
Personalized web-based support
Wired for Management 1.1a compliant
DMI 2.0-compliant
PC 99-compliant
ACPI ready (APM enabled)
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Reset switch on bottom
Plug and Play 1.0a
Standby, suspend, redisafe, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad 300, 500, 700, 700C - withdrawn

IBM® ThinkPad®:	✄ **300** monochrome		✄ **500** sub-notebook		✄ **700** monochrome		✄ **700C** color TFT
Processor type Processor speed Memory cache Coprocessor socket Diskette drive	**80386 SL** **25 MHz** 64 KB external Yes (for 387 SL) 3.5" 1.44 MB		**80486 SLC2** **50/25 MHz** 16 KB internal No **External** 3.5" 1.44 MB		**80486 SLC** ▤ **25 MHz** 16 KB internal Yes (for 387 SL) 3.5" 1.44 MB		**80486 SLC** ▤ **25 MHz** 16 KB internal Yes (for 387 SL) 3.5" 1.44 MB
Price (retail USD) Type - model Hard drive - size Hard drive - speed Available date Withdrawal date	$ 1,999 2615-065 **80 MB** ▤ 19 ms Oct 92 Oct 93	$ 2,199 2615-067 **120 MB** 17 ms Oct 92 Oct 93	$ 1,999 2603-081 **85 MB** 15 ms June 93 Dec 93	$ 2,499 2603-171 **170 MB** 15 ms Aug 93 Dec 93	$ 2,750 9552-300 **82 MB** ▤ 17 ms ○ Oct 92 Oct 93	$ 2,950 9552-301 **122 MB** ▤ 17 ms ○ Oct 92 Oct 93	$ 4,350 9552-30B **120 MB**▤ 17 ms ○ Oct 92 Oct 93
Display - type Display - grey scales Display - techology Display - light source Display - size (diag) Display - contrast ratio 180 degree display tilt	VGA mono ▤ 64 grey scales ▤ STN LCD - Side-lit ▤ 9.5 inch ▤ 13 to 1 ▤ Yes		VGA mono 64 grey scales STN LCD - backlit 7.4 inch 18 to 1 Yes (external SVGA)		VGA mono ▤ 64 grey scales ▤ STN LCD - backlit ▤ 9.5 inch ▤ 18 to 1 ▤ Yes		**VGA color** 256 colors 640x480 Thin film transistor Active matrix 10.4 inch 100 to 1 Yes
Memory - std / max Mem - sockets empty SIMM/ICs available	4 / 12 MB 80 ns 2 sockets (parity) 2, 8 MB SIMMs		4 / 12 MB 80 ns 1 socket (non-parity) 4, 8 MB ICs (3.3 volt)		4 / 16 MB 80 ns 2 sockets (parity) 2, 4, 8 MB ICs		4 / 16 MB 80 ns 2 sockets (parity) 2, 4, 8 MB ICs
Keyboard / # of keys Fn key functions Keyboard slope Mouse/pointing Ext keyboard support	Full size alp/num/ 82 Yes (back panel) Miniature (option) Yes 12 (in any appl)		90% size alp/num/ 81 11 (in any appl) No **TrackPoint II**™ No		Full size alp/num/ 84 None 8 degrees (legs) **TrackPoint II** Yes (with opt cable)		Full size alp/num/84 None 8 degrees (legs) **TrackPoint II** Yes (with opt cable)
Dimensions Cubic inches Carrying case Color Weight (with battery)	12.1 x 8.5 x 1.7" 175 inches Blk nylon (option) Charcoal grey 5.9 pounds		10.1 x 7.2 x 1.6" 116 inches Blk nylon (option) Black 3.8 pounds		11.7 x 8.3 x 1.9" 185 inches Blk nylon (option) Black 6.5 pounds		11.7 x 8.3 x 2.2" 214 inches Blk nylon (option) Black 7.6 pounds
Battery - type Batt - life (per battery) Charge time - on / off Battery - options	Nickel hydride 3 to 10 hours 10 hrs / 2 hrs None		**Sealed lead acid** 3 to 9 hours 2.5 hrs / 1.2 hrs Nickel hydrid ($49)		Nickel hydride 3.8 to 7.5 hours 3 hrs / 2 hrs Yes - status indicator		Nickel hydride 2 to 4 hours 1.5 hrs / 1.4 hrs Yes - status indicator
Architecture External AT/MCA port Comm Crtrdge (1 card) Docking Station Port replicator Modem/serial slot PCMCIA 2.01 slots Visible LEDs - closed Serial / parallel ports	AT bus No No (fast parallel) No Yes None Modem only Yes - batt charge Yes / Yes (EPP)		AT bus No No No No No **1 Type I or 1 Type II** Yes Yes (cable) / Yes (EPP)		Micro Channel® Yes Yes (black) Yes (3550-002) blk Yes (black) Yes None Yes Yes / Yes (DMA)		Micro Channel Yes Yes (black) Yes (3550-002) blk Yes (black) Yes None Yes Yes / Yes (DMA)
APM-aware BIOS Other features Preinstalled software Warranty	APM-aware BIOS Hrdw security loop None 1 year - carry in or EasyServ (opt onsite)		APM-aware BIOS Hibernation mode DOS 5.02, PRODIGY® 1 year - carry in or EasyServ (opt onsite)		APM-aware BIOS Hrdw security loop DOS 5.02, PRODIGY **3 year** - carry in or EasyServ (opt onsite)		APM-aware BIOS Hrdw security loop DOS 5.02, PRODIGY **3 year** - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 360, 750, 755. The 700/720 memory IS compatible with 360, 750, 755.

FEATURES OF 500

Most powerful sub-notebook with 486SLC2
Lightweight 3.8 pounds
Hibernation mode saves memory to the hard
  drive and shuts system off
External VGA is SVGA (to 800 x 600)
Std external floppy (9 oz) plugs into back
Personalized nameplate in molded indentation
Coupon book with $4,000 in savings
Self charging battery with **integrated wall
  plug** and **no memory effect** (081, 171)

*ThinkPad 500 models 081 and 171 withdrawn
due to problems with the sealed lead acid
battery and replaced by models 08N and 17N
with a nickel hydride battery*

FEATURES OF 300

Upgradeable to TFT active color; 8.4"
Ethernet on planar for 10baseT,10base2
Upgradeable to 120 MB (80 MB version)
External VGA is SVGA (to 1024 x 768)
2 level password security
Hot key setup in any application
Standby mode and rest mode
Rest mode lasts up to 2 weeks

FEATURES OF 700/700C and 720/720C

3 year international warranty
700/720 mono upgradeable to TFT color
700/700C upgradeable to 486SLC2 50/25
Upgradeable to 120, 160, 240, or 340 MB
Removable hard disk
Pressure activated TrackPoint II
Optional battery w/ power status indicators
Quick Charger holds 2 batt; discharge button
Coupon book with $4,000 in savings

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International warranty

IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
**24 hour / 7 day telephone support at
  1-800-772-2227**

IBM ThinkPad 310 (EMEA) - withdrawn

IBM® ThinkPad®:	✕ 310	✕ 310	✕ 310D
	11.3" Dual Scan SVGA color	11.3" TFT SVGA color	11.3" Dual Scan SVGA color / 10 x CD-ROM
Processor type	**Pentium® 133/66 MHz** (P54CSLM) / 64 bit to transfers to L2 cache and memory		
Processor upgrade	None		
L2 cache	**256 KB** / write-back / direct mapped / 7 ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44 MB (on left side)		External 3.5" 1.44 MB (connect to rear)
CD-ROM drive	**None** (upgrade available)	**None** (upgrade available)	**10 x CD-ROM** / bootable(left side) / CAV
Code name	LaCrosse	LaCrosse	LaCrosse
Price			
Type - model	**2600-100**	**2600-300**	**2600-200**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	June 1997 / January 1998		
Disk - size / ms	**1.08GB** / 13ms read; 14ms write / PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**11.3" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**11.3" Dual Scan SVGA color**
Display - techology	11.3" SVGA color / 640x480 or 800x600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640x480 or 800x600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	**16MB** / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60 ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 1.9" (198 cubic inches)		
Weight	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.0 lbs (3.2 kg)
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Battery - life	2.5 hours		
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs / no non-disruptive battery exchange		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ Diskette and disk write protect and disable / Locking device keyhole on back (Kensington™ cable lock)		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	**1 year** - carry-in		

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

Compatible in ThinkPad 310 family:

- 2.1GB HDD 13/14 ms (user upgradeable) 11J8643
- NiMH Battery 11J8639
- AC Adapter, 3 prong w/o power cord 11J8699
- AC Adapter, 3 prong with US power cord 11J8702
- 8MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8635
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8637
- 10 x CD-ROM w/ external FDD/cable 11J8676 (dealer installable only)
- PCMCIA 28.8Kbps International 42H4319

FEATURES OF 310 MODELS

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
US EPA Energy Star compliant
Personalized nameplate indention
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service

IBM® ThinkPad®:	310E	310E	310ED
	12.1" Dual Scan SVGA color	11.3" TFT SVGA color	12.1" Dual Scan SVGA color / 10X CD-ROM
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 150/60MHz**	**Pentium MMX 133/66MHz**
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (upgrade available)		**10X**[5] **CD-ROM** / bootable (left side) / CAV
Code name	LaCrosse-2		LaCrosse-2
Price			
Type - model	**2600-400**	**2600-600**	**2600-500**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	November 1997 / July 1998		
Disk - size / ms	**1.6GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	**16MB** / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 49 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.1 lbs (3.2 kg)
Battery - life	3.0 hours	3.5 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit/33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Notebook Manager
- (no diskette factory)
1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon
CD-ROMs included in shipping carton:
- Application CD-ROM (includes W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1   = Hot key help
Fn + F2   = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3   = LCD/CRT/Simultaneous
Fn + F4   = Fuel gauge
Fn + F5   = Audio volume
Fn + arrows = Adjust volume
Fn + F6   = Power mgmt and system info
Fn + F7   = Standby
Fn + F8   = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk, 13/14ms (user upgradeable)   11J8643
- 3.2GB disk, 13/14ms (user upgradeable)   05K8864
- NiMH Battery   11J8639
- AC Adapter, 3 prong without power cord   11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8637
- 10X CD-ROM w/ external FDD/cable   11J8676
  (dealer installable only)
- 20X-8X Portable CD-ROM   1969010
- 20X-8X Portable Stereo CD-ROM   1969011
- PCMCIA 33.6Kbps International Data/Fax   42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK   55H6759

IBM® ThinkPad®:	**310E** 12.1" Dual Scan SVGA color	**310E** 12.1" TFT SVGA color	**310ED** 12.1" Dual Scan SVGA color / CD-ROM
Processor type	**Pentium® MMX™ 166/66MHz**[1]		
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (dealer upgrade available)		**20X-8X**[5] **x CD-ROM** / bootable (left side) / CAV
Price			
Type - model	**2600-A00**	**2600-C00**	**2600-B00**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	March 1998 / September 1998		
Disk - size / ms	**2.1GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**12.1" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator		
Graphics - memory	1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	**16MB** / 64MB	**32MB** / 64MB	
Memory - implement	One 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 16 or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	2.8 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Internet Explorer 4.0
- Notebook Manager
- (no diskette factory)
1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon

CD-ROMs included in shipping carton:
- Application CD-ROM (includes W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable)   11J8643
- 3.2GB disk 13/14ms (user upgradeable)   05K8864
- NiMH Battery   11J8639
- AC Adapter, 3 prong without power cord   11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8637
- 10X CD-ROM w/ external FDD/cable   11J8676
  (dealer installable only)
- 20X-8X CD-ROM w/ external FDD/cable   05K8867
  (dealer installable only)
- 20X-8X Portable CD-ROM   1969010
- 20X-8XPortable Stereo CD-ROM   1969011
- PCMCIA 33.6Kbps International Data/Fax   42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK   55H6759

IBM ThinkPad® 310ED (Retail models) - withdrawn

IBM® ThinkPad®:	✂ 310ED	✂ 310ED
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 166/66MHz**
Processor upgrade	None	
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory	
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst	
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)	
Diskette drive	External 3.5" 1.44MB (connect to rear)	
CD-ROM drive	**10x**[5] **CD-ROM** / bootable (left side) / CAV	**20X-8X**[5] **CD-ROM** / bootable (left side) / CAV
Price		
Type - model	**2600-50U**	**2600-B0U**
UPC code	**087944375975**	**087944395997**
Preload (see side)	**Windows 95 OSR2**	Windows 95 OSR2.5
Avail / withdrawn date	November 1997 / May 1998	March 1998 / September 1998
Disk - size / ms	**1.6GB**[4] / 13ms/14ms / PIO 4 / SMART	**2.1GB** / 13ms read; 14ms write / PIO Mode 4 / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**12.1" Dual Scan SVGA color**	
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion	
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	**16MB** / 64MB / one SO-DIMM used	**32MB** / 64MB / one SO-DIMM used
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system	
Memory - upgrade	1 socket available for JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)	
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (no optional cable)	
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm	
Weight[2]	7.1 lbs (3.2 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange	
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side	
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)	
Docking Station	None	
Port replicator	None	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS	
Video in/out	None	
Data/fax modem	None	**56Kbps PC Card modem** ActionTec® DataLink / K56flex™
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control	
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)	
Telephone	None	
Infrared ports	None	
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization	
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)	
Limited warranty[11]	**1 year** - carry-in	

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable)   11J8643
- 3.2GB disk 12ms (user upgradeable)   05K8864
- NiMH Battery   11J8639
- AC Adapter, 3 prong, US pwr cord, 45 wa   11J8702
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8637
- PCMCIA 33.6Kbps International Data/Fax   42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK   55H6759
- 56K PC Card Modem Kit   04K0052

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
Year 2000 ready
International Warranty Service[14]
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

IBM ThinkPad 345 (non-US) - withdrawn

IBM® ThinkPad®:	✂ 345CS dual scan color		✂ 345C TFT color		ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point
Processor type	**IntelDX4**				➭ **Entry priced ThinkPad**
Processor speed	**75/25 MHz** / 3.3 volt				➭ **Large color 10.4" dual scan or TFT display**
Memory cache	16 KB internal (no L2 cache)				➭ **Fast IntelDX4 75/25 MHz**
Coprocessor socket	Integrated in DX4				➭ **Lightweight (5.2 or 5.5 pounds)**
Processor / L2 upgrade	None				➭ **TrackPoint III**
Diskette drive	3.5" 1.44 MB (not removable)				
Removable CD-ROM	None				

Price	$	$	$	$	
Type - model	2610-EYF	2610-EYG	2610-FYF	2610-FYG	
IDE disk - size	**360 MB**	**540 MB**	**360 MB**	**540 MB**	
Hard drive - speed	13 ms	13 ms	13 ms	13 ms	
Avail / withdrawn date	Sep 1995 / Jan 1996		Sep 1995 / Apr 1996		

Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480	
Display - colors	256 simultaneous colors	256 simultaneous colors	
Display - techology	**Dual Scan** - passive matrix	**Black Matrix TFT - active matrix**	
Display - diagonal size	**10.4 inch**	**10.4 inch**	
Display - contrast ratio	20 to 1	100 to 1	
180 degree display tilt	Yes	Yes	

Graphics - controller	WD90C24A Rev C with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 60 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5 volt	Memory upgraded via
Mem - sockets empty	1 socket	1 open socket for IC DRAM
Mem - options available	4, 8, 16 MB IC DRAM	memory card for 20 MB max

Keyboard / # of keys	Full size alp/num / 85 keys / quiet keyboard
Fn key functions	7 (in any appl)
Keyboard slope	None
Mouse/pointing	**TrackPoint III**™ (no drag lock)
Ext keyboard support	Yes (with optional cable)

Dimensions	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.0"	
Cubic inches	184 inches	194 inches	
Color	Black	Black	
Weight (with battery)	5.2 pounds	5.5 pounds	

Battery - type	Nickel hydride (NiMH) / non-intelligent	Fn key functions:
Batt - life (per battery)	2.5 to 5 hours	- Fuel guage (battery)
Charge time - on / off	2 hrs / 1.5 hr	- Standby mode
Architecture	AT bus (ISA)	- Suspend mode
Docking Station	None	- Audio volume
Port replicator	None	- LCD or CRT or both
PCMCIA™ 2.1 slots	1 Type I or 1 Type II or 1 Type III	- Power management mode
Serial / parallel ports	Yes (one 9 pin) 16550A / Yes (EPP)	- Hibernation mode

Other features	APM-aware BIOS / Selectable boot
	AC adapter, 35 watts, worldwide, 3 pin, not wallmount
Audio support	Audio beep only
Security	Power-on password
	Locking device keyhole (Kensington™ MicroSaver™ cablelock)

Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	None

The ThinkPad 345 family has the same physical design as the ThinkPad 340

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Hard disk and diskette drive are not removable. Keyboard does not lift up.

Options for 345:

- 4 MB IC DRAM 70 ns Parity	92G7232
- 8 MB IC DRAM 70 ns Parity	92G7233
-16 MB IC DRAM 70 ns Parity	92G7234
- 4 MB IC DRAM 70 ns non-Parity	92G7236
- 8 MB IC DRAM 70 ns non-Parity	92G7237
-16 MB IC DRAM 70 ns non-Parity	92G7424
- NiMH Battery Pack (Worldwide)	85G7637
- NiMH Battery Pack (Japan)	95G7638
- NiMH Battery Pack (EMEA)	85G7605
- 35 watt AC Adapter (Worldwide)	85G6680
- 35 watt AC Adapter (Japan)	85G6682
- 35 watt AC Adapter (EMEA)	85G6683

IC DRAM parity memory from the above options will work but without parity

FEATURES OF 345 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❑ = Upgradeable;   ◯ = Removable;   ✂ = Withdrawn from marketing

IBM® ThinkPad®:	✂ **350** monochrome	✂ **350C** passive color	✂ **500** sub-notebook	✂ **510Cs** color sub-notebook
Processor type	*All:* **80486 SL** (no math co)		**80486 SLC2**	**Blue Lightning 486BL2-50**
Processor speed	*All:* **25 MHz**		**50/25 MHz**	**50/25 MHz**
Memory cache	*All:* 8 KB internal (no L2)		16 KB internal (no L2)	16 KB internal (no L2 cache)
Coprocessor socket	*All:* No		No	No
Diskette drive	*All:* 3.5" 1.44 MB		**External** 3.5" 1.44 MB	**External** 3.5" 1.44 MB (9 oz.)

	350		350C		500		510Cs
Price (retail USD)	$ 1,499	$ 1,899	$ 1,599 ♣	$ 1,999 ♣	$ 799 ♣	$ 999 ♣	$ 1,799 ♣
Type - model	2618-J0A	2618-L0A	2618-N0A	2618-P0A	2603-08N	2603-17N	2604-C2U
Hard drive - size	**125 MB**	**250 MB**	**125 MB**	**250 MB**	**85 MB**	**170 MB**	**200 MB**
Hard drive - speed	15 ms	12 ms	15 ms	12 ms	15 ms	15 ms	17 ms
Avail / withdrawal date	June 93 / withd Sep 94		June 93 / withd Sep 94		Dec 93 / withd Jan 95		June 94 / w May 95

Fn + F2 = Fuelguage
Fn + F3 = Setup
Fn + F4 = Suspend
Fn + F5 = Speaker
Fn + F6 = Sysrequest
Fn + F7 = CRT/LCD
Fn + F8 = Rev video
Fn + F9 = Num Lock
Fn + F10 = Scroll Lock
Fn + F11 = Print Scrn
Fn + F12 = Hibernation

	350	350C	500	510Cs
Display - type	VGA mono	**VGA color**	VGA mono	**VGA color**
Display - grey scales	64 grey scales	256 colors 640 x 480	64 grey scales	256 colors 640 x 480
Display - techology	STN	STN - passive matrix	STN	STN - passive matrix
Display - light source	LCD - Backlit	LCD - Backlit	LCD - backlit	LCD - backlit
Display - size (diag)	9.5 inch	9.2 inch	7.24 inch	7.7 inch
Display - contrast ratio	18 to 1	13 to 1; Single scan	18 to 1	14 to 1; Single scan
180 degree display tilt	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)
Graphics - controller	*All:* 65530 / External VGA is ISO capable (75Hz)		WD90C26	WD90C24A2 / 1 MB video mem
Graphics - vendor	*All:* Chips & Tecnologies, Inc.		Western Digital	Western Digital
Graphics - arch/data path	*All:* Local bus / 16 bit / Peripheral Interface		ISA 16 bit	VL-Bus / VESA 32 bit local bus
Memory - std / max	*All:* 4 / 20 MB 80 ns		4 / 12 MB 80 ns	4 / 20 MB 80 ns
Mem - sockets empty	*All:* 1 socket (non-parity)		1 socket (non-parity)	1 socket (non-parity)
Mem - options available	*All:* 4, 8, 16 MB SIMMs		4, 8 MB ICs (3.3 volt)	4, 8, 16 MB ICs (3.3 volt)

Suspend/resume buttn above keyboard
Fn+F1 = Configuration Utility
Fn+F2 = Reverse video
Fn+F3 = Contrast text

	350	350C	500	510Cs
Keyboard / # of keys	*All:* Full size alp/num/ 85		90% size alp/num/ 81	90% size alp/num/ 81
Fn key functions	*All:* 2 (in any appl)		11 (in any appl)	15 (in any appl)
Keyboard slope	*All:* Yes (back panel)		No	No
Mouse/pointing	*All:* **TrackPoint II™**		**TrackPoint II**	**TrackPoint II**
Ext keyboard support	*All:* Yes (with opt cable)		No	Yes (on MultiPort)
Dimensions	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.0"	10.1 x 7.2 x 1.6"	10.1 x 7.2 x 1.7"
Cubic inches	184 inches	194 inches	116 inches	124 inches
Carrying case	Many options	Many options	Many options	Many options
Color	Black	Black	Black	Black
Weight (with battery)	5.2 pounds	5.8 pounds	3.4 pounds / 3.7 (170M)	4.0 pounds

Fn + Q = Inc brightness
Fn + A = Dec brightness
Fn + W = Inc contrast
Fn + S = Dec contrast

	350	350C	500	510Cs
Battery - type	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)
Batt - life (per battery)	2.7 to 9 hours	2 to 7.5 hours	3.5 to 9 hours	2.5 to 8 hours
Charge time - on / off	2 hrs / 1 hr	2 hrs / 1 hr	3 hrs / 1.5 hrs	2.5 hrs / 1.5 hrs

Enter Setup by CTRL+ALT+F3 from DOS prompt

	350	350C	500	510Cs
Architecture	*All:* AT bus (ISA)		AT bus (ISA)	AT bus (ISA)
Docking Station	*All:* No		No (withdrawn 500	No
Port replicator	*All:* No		No had sealed lead	Yes (MultiPort ships standard)
Modem/serial slot	*All:* Modem only		No acid battery)	No
PCMCIA 2.01 slots	*All:* **1 Type I or 1 Type II**		**1 Type I or 1 Type II**	**1 Type I or 1 Type II**
Visible LEDs - closed	*All:* Yes		Yes	Yes
Serial / parallel ports	*All:* Yes / Yes		Yes (cable) / Yes (EPP)	Yes (MultiPort) / Yes (EPP)
APM-aware BIOS	*All:* APM-aware BIOS		APM-aware BIOS	APM-aware BIOS
Other features	*All:* Wallmount AC adapter			Microsaver™ security connector
			Hibernation mode	Hibernation mode
	All: Personalized nameplate in indentation		Personalized nameplate	Personalized nameplate in indentation
	All: Coupon book with $4,000 in savings		Coupon book w/ sav	Personal greeting screen at startup
Preinstalled software	*All:* IBM DOS 5.02, PRODIGY®		IBM DOS 6.1, PRODIGY After July 1 only on 17N: see below	IBM DOS 6.3, Windows 3.1, Demo, and 8 appls listed below
Warranty	*All:* 1 year - carry in or EasyServ (opt onsite)		1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (optional onsite for $40 a year)

FEATURES OF 500 and 510Cs

500: External cable has 2 connectors for serial port and external diskette drive
510: External cable has 1 connector for external diskette drive (serial port on MultiPort).

MultiPort: A port replicator with connectors for diskette drive, external display, mouse/ keyboard, and serial device (ships with 510Cs). Plugs into 160 pin connector on back.

3 power saving modes: doze, suspend, hibernation.

Batteries in 500 and 510Cs are NOT compatible

✂ Withdrawn from marketing

SOFTWARE PREINSTALLED ON 500-17N (after July 1, 1994) and 510Cs

IBM DOS 6.3, Windows 3.1, Demo, and 8 appls:
① Lotus cc:Mail, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk 1.0, ⑤ Triton CoSession Host, ⑥ PRODIGY, ⑦ America Online, ⑧ SofNet FaxWorks 3.0

EasyPlaying (PC Card Director™) is preloaded and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers).

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad 500 memory (4, 8 MB IC 3.3 volt) is compatible with ThinkPad 510Cs.

ThinkPad 510Cs MultiPort is NOT compatible with ThinkPad 500.

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
♣ Price decrease effective July 13 (350C) and Aug 18 (510), 1994.

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(1THINK) Compiled by Roger Dodson, IBM. April 1995

IBM ThinkPad 355 - withdrawn

IBM® ThinkPad®:	355 monochrome	355Cs dual scan color		355C TFT color	
Processor type	*All:* **80486 SX** (no math coprocessor)				
Processor speed	*All:* **33MHz** 3.3 volt (SL Enhanced)				
Memory cache	*All:* 8KB internal (no L2 cache)				
Coprocessor socket	*All:* No				
Removable diskette	*All:* 3.5" 1.44MB ○				

ALL 355 MODELS
Liftable (pop-up) keyboard **to access and remove:**
① **diskette drive**
② **disk**
③ **battery**
④ **memory**

	355	355Cs		355C	
Price (retail USD)	$ 1,899	$ 2,599	$ 2,849	$ 3,399	$ 3,749
Type - model	2619-I15	2619-K20	2619-K25	2619-L50	2619-L55
Removable disk - size	**125MB** ◪	**170MB** ◪	**250MB** ◪	**125MB** ◪	**250MB** ◪
Hard drive - speed	15ms ○	15ms ○	14ms ○	15ms ○	14ms ○
Available date	June 94	June 94	June 94	July 94	July 94

	355	355Cs	355C
Display - type	VGA mono	**VGA color**	**VGA color**
Display - grey scales	64 grey scales 640x480	256 colors 640 x 480	256 colors 640 x 480
Display - techology	STN	STN - passive matrix	**TFT - active matrix**
Display - light source	LCD - Backlit	LCD - Backlit	LCD - Backlit
Display - size (diag)	9.5 inch	9.5 inch **Dual scan**	8.4 inch
Display - contrast ratio	18 to 1	20 to 1	100 to 1
180 degree display tilt	Yes	Yes	Yes

Graphics - controller	*All:* WD90C24A2 with 1MB DRAM / Graphics WinMarks 4.0 = 3.7
Graphics - vendor	*All:* Western Digital / External SVGA to 1024x768 with 256 colors
Graph - arch/data path	*All:* VL-Bus / 32-bit VESA local bus / Simultaneous LCD and CRT

Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (355C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.

Memory - std / max	*All:* 4 / 20MB 70ns
Mem - sockets empty	*All:* 1 socket (non-parity)
Mem - options available	*All:* 4, 8, 16MB ICs (5.0 volts)

Keyboard / # of keys	*All:* Full size alp/num/ 85	Fn + F2 = Fuel guage	Fn + F7 = Ext display/LCD
Fn key functions	*All:* 10 (in any appl)	Fn + F3 = Standby	Fn + F8 = Reverse video (mono)
Keyboard slope	*All:* Yes (legs pop out)	Fn + F4 = Suspend	Fn + F9 = Hi-intensity text (mono)
Mouse/pointing	*All:* **TrackPoint II**™	Fn + F5 = Audio off/down	Fn + F11 = Power mgmt
Ext keyboard support	*All:* Yes (with optional cable)	Fn + F6 = Audio on/up	Fn + F12 = Hibernation mode

	355	355Cs	355C
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"
Cubic inches	165 inches	194 inches	185 inches
Carrying case	Many options	Many options	Many options
Color	Black	Black	Black
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds

	355	355Cs	355C
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr

Architecture	*All:* AT bus (ISA)
Docking Station	*All:* No
Port replicator	*All:* No
Data/fax modem	*All:* 2400 data / 4800 receive fax / 9600 send fax
PCMCIA 2.01 slots	*All:* **1 Type I or 1 Type II or 1 Type III**
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes

An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 355 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).

Other features	*All:* APM-aware BIOS / Selectable boot
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts
	All: **Hibernation mode** saves memory to disk and shuts off system
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base

Preinstalled software	*All:* MS DOS 6.21, Windows 3.1, Demo, and 8 applications: ① Works for Windows, ② ThinkPad Fitness, ③ ThinkPad Index, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0
Warranty	*All:* 1 year - carry in to retailer or EasyServ (optional onsite for $40)

The ThinkPad 355 family has the same physical design as the ThinkPad 360, 750, and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 355, 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 355, 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810MB)
- 1.44MB diskette drive
- CDPD Mobile Communications Module
- Keyboard/mouse connector
- 355 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 355
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 355 (or 360).
IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 355C:
- TV tuner

FEATURES

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75Hz)
Upgradeable disks: 170MB, 250MB, 340MB, 540MB, 810MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
IBM or retailer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

IBM ThinkPad 360 - withdrawn

IBM® ThinkPad®:	✂ **360** monochrome	✂ **360Cs** dual scan color	✂ **360C** TFT color	✂ **360P** color pen	✂ **Traveling Multimedia** preconfigured system
Processor type	*All:* **80486 SX** (no math coprocessor)			The 360P supports **pen** based applications	A preconfigured, multimedia **360Cs;** Available June 94; Withdrawn May 1995 Part #2337290 $ 5,299
Processor speed	*All:* **33 MHz** 3.3 volt (SL Enhanced)				
Memory cache	*All:* 8 KB internal (no L2 cache)	The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I.			
Coprocessor socket	*All:* No				
Removable diskette	*All:* 3.5" 1.44 MB ○				
Price (retail USD)	$ 1,899 / $ 2,299	$ 2,349 / $ 2,749	$ 2,299 ♣ / $ 2,599 ♣	$ 2,899 / $ 3,399	Included with the IBM Traveling Multimedia:
Type - model	2620-00D / 2620-00F	2620-20D / 2620-20F	2620-30D / 2620-30F	2620-50D / 2620-50F	
Removable disk - size	**170 MB** ❑ / **340 MB** ❑	**170 MB** ❑ / **340 MB** ❑	**170 MB** ❑ / **340 MB** ❑	**170 MB** ❑ / **340 MB** ❑	Hardware:
Hard drive - speed	15 ms ○ / 14 ms ○	15 ms ○ / 14 ms ○	15 ms ○ / 14 ms ○	15 ms ○ / 14 ms ○	- 360Cs (all features listed on left)
Available date	May 94 / withd May 95	May 94 / withd Dec 95	June 94 / withd Dec 95	June 94 / withd Dec 95	- 16 bit Mwave® audio chip on adapter card
Display - type	VGA mono	**VGA color**	**VGA color**	**VGA color**	- Stereo in/out jacks
Display - grey scales	64 grey scales 640x480	256 colors 640 x 480	256 colors 640 x 480	256 colors 640 x 480	- 340 MB removable hard disk
Display - techology	STN	STN - passive matrix	**TFT - active matrix**	STN - passive matrix	- 8 MB memory (4 MB std + 4 MB IC DRAM)
Display - light source	LCD - Backlit	LCD - Backlit	LCD - Backlit	LCD - Backlit	- 14.4 Data/Fax modem (PCMCIA)
Display - size (diag)	9.5 inch	9.5 inch **Dual scan**	8.4 inch	9.5 inch **Dual scan**	- Dock I (Docking Station)
Display - contrast ratio	18 to 1	20 to 1	100 to 1	18 to 1	- CD-ROM/XA - double speed and Kodak Photo CD multisession
180 degree display tilt	Yes	Yes	Yes	Yes	- Dock I Carrying Case
Graphics - controller	*All:* WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 3.7			Incudes untethered stylus to write on pen-enabled screen	- Interlink® ProPoint™
Graphics - vendor	*All:* Western Digital / External SVGA to 1024 x 768 with 256 colors				Software:
Graph - arch/data path	*All:* VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT				- Asymetrix® COMPEL™ (on screen multimedia presentations)
Memory - std / max	*All:* 4 / 20 MB 70 ns	Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (360C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.			- Asymetrix MediaBlitz!™ (library of media clips)
Mem - sockets empty	*All:* 1 socket (non-parity)				- LapLink® V
Mem - options available	*All:* 4, 8, 16 MB ICs (5.0 volts)				- Picture Factory™
Keyboard / # of keys	*All:* Full size alp/num/ 85	Fn + F2 = Fuel guage Fn + F7 = Ext display/LCD			- TalkWorks™
Fn key functions	*All:* 10 (in any appl)	Fn + F3 = Standby Fn + F8 = Reverse video (mono)			- Sound Effects Library™
Keyboard slope	*All:* Yes (legs pop out)	Fn + F4 = Suspend Fn + F9 = Hi-intensity text (mono)			- ClickART™ 2000
Mouse/pointing	*All:* **TrackPoint II**™	Fn + F5 = Audio off/down Fn + F11 = Power mgmt			
Ext keyboard support	*All:* Yes (with optional cable)	Fn + F6 = Audio on/up Fn + F12 = Hibernation mode			
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.1"	**ALL 360 MODELS** *Liftable (pop-up) keyboard* **to access and remove diskette drive, disk, battery, and memory**
Cubic inches	165 inches	194 inches	185 inches	204 inches	
Carrying case	Many options	Many options	Many options	Many options	
Color	Black	Black	Black	Black	
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds	6.8 pounds	
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride	Nickel hydride	
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours	3.3 to 7 hours	
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr	
Architecture	*All:* AT bus (ISA)	*An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 360 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).*			
Docking Station	*All:* **Yes** (Dock I and II; same as 750/755)				
Port replicator	*All:* **Yes** (Port Replicator I and II)				
Modem/serial slot	*All:* No				
PCMCIA 2.01 slots	*All:* **2 Type I or 2 Type II or 1 Type III**				
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes (EPP)				
Other features	*All:* APM-aware BIOS / Selectable boot				
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts				
	All: **Hibernation mode** saves memory to disk and shuts off system				
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base				
Preinstalled software	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0			**360P** includes software to left and ① PenDOS® 2.2, ② IBM ThinkWrite, ③ Windows for Pen Computing 1.0	
Warranty	*All:* 1 year - carry in or EasyServ (optional onsite for $40) / International travelers warranty				

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- 1.44 MB diskette drive
- Dock I and Dock II
- Port Replicator I and Port Replicator II
- CDPD Mobile Module (not pen models)
- FDD (diskette) External Attachment kit
- Keyboard/mouse connector
- 360 battery does not work in ThinkPad 750/ 755, but 750/755 battery will work in 360
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 360C:
- TV tuner and AD card

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

Winstone 94 for 360C = 26.4

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
STN = Super twisted nematic; ❑ = Upgradeable; ○ = Removable
♣ Price decrease effective January 26, 1995; ✂ Withdrawn from marketing

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No warranties are expressed or implied in this summary
(360THINK) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 360CSE / CE - withdrawn

IBM® ThinkPad®:	✂ **360CSE** dual scan color	✂ **360CE** TFT color	The 360CSE / CE is the same as the 360 (older models) except:	
			360	**360CSE / CE**

Processor type	**80486 DX2**
Processor speed	**50/25 MHz** 3.3 volt (SL Enhanced)
Memory cache	8 KB internal (no L2 cache)
Coprocessor socket	Integrated in 486DX2
Removable diskette	3.5" 1.44 MB ◯ / supports internal 2.88 MB diskette
Removable CD-ROM	None

360	360CSE / CE
Mono, Dual scan, TFT, Pen 486SX - 33 MHz No math cop possible 170, 340 MB std models	Dual scan, TFT 486DX2 - 50/25 MHz Integrated math cop 170, 340, 540 MB std More preloaded appls

Price (retail USD)	$ 2,399 ♣	$ 2,699 ♣	$ 3,049 ♣	$ 2,799 ♣	$ 3,099	$ 3,449
Type - model	2620-80D	2620-80F	2620-80G	2620-90D	2620-90F	2620-90G
Removable disk - size	**170 MB** ❑	**340 MB** ❑	**540 MB** ❑	**170 MB** ❑	**340 MB** ❑	**540 MB** ❑
Hard drive - speed	14 ms ◯	14 ms ◯	14 ms ◯	14 ms ◯	14 ms ◯	14 ms ◯
Available date	Oct 94 / withdrawn Dec 95			Oct 94 / withdrawn Dec 95		

ALL 360 MODELS
Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory

Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors	256 simultaneous colors
Display - techology	**Dual scan** - passive matrix	**TFT - active matrix**
Display - size (diag)	**9.5 inch**	**8.4 inch**
Display - contrast ratio	20 to 1	100 to 1
180 degree display tilt	Yes	Yes

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

Graphics - controller	WD90C24A or A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt
Mem - sockets empty	1 socket
Mem - options available	4, 8, 16 MB ICs

Keyboard / # of keys	Full size alp/num / 85 keys
Fn key functions	8 (in any appl)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint II**™
Ext keyboard support	Yes (with optional cable)

PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features
1. Lotus® cc:Mail, e-mail for Advantis® network,
2. Lotus Organizer 1.12,
3. Lotus ScreenCam 1.0,
4. Official Airline Guide Flight Disk® 1.0,
5. Triton CoSession™ Host,
6. PRODIGY®,
7. America Online℠,
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network

Dimensions	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"
Cubic inches	194 inches	185 inches
Color	Black	Black
Weight (with battery)	6.2 pounds	6.1 pounds

Battery - type	Nickel hydride (NiMH)	Nickel hydride (NiMH)
Batt - life (per battery)	2.9 to 7 hours	3.2 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
Modem/serial slot	No
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)

Other features	APM-aware BIOS / Selectable boot
	Some models will have Wallmount AC adapter without powercord with retractable prongs, 30 watts
	Hibernation mode saves memory to disk and shuts off system
Security	Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base

Preinstalled software	IBM DOS 6.3, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - carry in or EasyServ (optional onsite for $40)

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Battery compatibility:	All 360	All 750	755 C/ CS	755 CE/ CSE/ CD
84G2392 360 NiMH battery	Y	N	N	N
66G2846 750 NiMH battery	Y	Y	Y	N
85G1513 NiMH Batt Pack II	N	N	N	Y

Y = battery supported; N = not supported

Compatible in all 360 family, 360CSE / CE, 750 family, 755 family, 755CSE / CE, 755CD:
- Disks: 170 MB IDE disk   66G2849
          250 MB IDE disk   84G2391
          340 MB IDE disk   66G2849
          540 MB IDE disk   84G2150
          810 MB IDE disk   84G8250
- Dock I (1 slot / 1 bay)   3450001
- Dock II (2 slot / 2 bay)   84G3587
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108

Options for 360 (not pen), 360CSE / CE, 750 (not pen), 755, 755CSE / CE:
- CDPD Mobile module   71G2560

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

Options only for TFT models - 360C, 360CE, 750C, 755C, 755CE, 755CD:
- TV Tuner   66G3689

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ◯ = Removable; ♣ Price decrease effective February 14, 1995.

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No warranties are expressed or implied in this summary
(360E) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 360PE - withdrawn

IBM® ThinkPad®:	✂ **360PE** dual scan color - pen
Processor type	**80486 DX2**
Processor speed	**50/25 MHz** 3.3 volt (SL Enhanced)
Memory cache	8 KB internal (no L2 cache)
Coprocessor socket	Integrated in 486DX2
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette
Removable CD-ROM	None

The ThinkPad 360PE has the same features as 360CSE except:
- ➪ **Pen enabled display**
- ➪ **Untethered batteryless stylus (pen)**
- ➪ **Display folds down to flat position to write on**
- ➪ **16 bit audio codec** (vs no audio)
- ➪ **Audio in and audio out jacks**
- ➪ **PenDOS, Pen Windows, and Monologue preinstalled**
- ➪ **35 watt universal AC adapter** (vs 30 watt)

Price (retail USD)	$ 3,699	$ 4,049
Type - model	2620-BOF	2620-BOG
Removable disk - size	**340 MB** ❑ ○	**540 MB** ❑ ○
Hard drive - speed	14 ms	14 ms
Avail / withdrawn date	April 1995 / June 96	July 1995 / June 1996

ALL 360 MODELS
Liftable (pop-up) keyboard **to access and remove diskette drive, disk, battery, and memory**

Display - type	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors
Display - techology	**Dual scan** - passive matrix
Display - size (diag)	**9.5 inch /** 20 to 1 contrast ratio
Display - pen enabled	**Pen enabled screen / folds flat / includes untethered batteryless stylus**

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Graphics - controller	WD90C24A or A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt
Mem - sockets empty	1 socket
Mem - options available	4, 8, 16 MB ICs

Diskette drive can be removed
① to reduce weight
② to add other third party options

		Memory options:	
Keyboard / # of keys	Full size alp/num / 85 keys		
Fn key functions	8 (in any appl)	4 MB IC DRAM 70 ns 5v parity	92G7232
Keyboard slope	Yes (legs pop out)	8 MB IC DRAM 70 ns 5v parity	92G7233
Mouse/pointing	TrackPoint II™	16 MB IC DRAM 70 ns 5v parity	92G7234
Ext keyboard support	Yes (with optional cable)	4 MB IC DRAM 70 ns 5v non-parity	92G7236
		8 MB IC DRAM 70 ns 5v non-parity	92G7237
		16 MB IC DRAM 70 ns 5v non-parity	92G7424

PREINSTALLED APPLICATIONS
- IBM PC DOS 6.3
- **PenDOS® 2.2**
- **IBM ThinkWrite 1.21**
- Windows 3.11
- **Windows for Pen computing® 1.0**
- IBM PC Card Director for PCMCIA
- Online Users Guide
- ThinkPad features
1. Lotus® cc:Mail, for the IBM Global® network
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0
4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host
6. PRODIGY®
7. America Online℠
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network
16. Monologue™

Dimensions	11.7 x 8.3 x 2.1"
Cubic inches	204 inches
Color	Black
Weight (with battery)	6.8 pounds

Battery - type	Nickel hydride (NiMH)
Batt - life (per battery)	3 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) / Yes (EPP)

Audio support	**16 bit audio codec on planar /** Crystal Semiconductor™ CS4248 / int speaker
Audio in/out jack	Input jack / output jack
Other features	APM-aware BIOS / Selectable boot
	AC adapter, 35 watts, worlwide, not wallmount
	Hibernation mode saves memory to disk and shuts off system
Security	Power-on password / Hard disk password / Hardware security loop (secures unit, prevents opening keyboard) / PCMCIA card lock / Optional Security Base
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, pen op systems, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only / ThinkPad EasyServ Overnight Repair Option

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The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

ThinkPad 360PE supported batteries:
- 360 NiMH battery   84G2392
- 750 NiMH battery   66G2846
- 750 QuickCharger   66G2843

Compatible in all 360 family, all 750 family, and all 755 family:
- Disks: 170 MB IDE   66G2847
          250 MB IDE   84G2391
          340 MB IDE   66G2849
          540 MB IDE   84G2150
          810 MB IDE   84G8250
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer

Options for 360PE:
- AC Adapter, 35 watts   85G6680
- AC Adapter, 40 watts   49G2165
- AC Adapter, 40 w, wallmount   84G2148
- Car Battery Adapter   49G2167

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

FEATURES OF 360 FAMILY
3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE
1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ○ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(360PE) Compiled by Roger Dodson, IBM. June 1996

IBM® ThinkPad®:	✂ **365CS** 10.4" dual scan				✂ **365C** 10.4" TFT	
Processor	**Cyrix Cx486DX4**™ **75/25 MHz** / integrated math coprocessor					
Processor upgrade	None					
Memory cache	8 KB in DX4 (write back) / no L2 cache					
Diskette drive	Internal 3.5" 1.44 MB (not removeable)					
CD-ROM	None (cannot upgrade)					

ThinkPad 365 strengths:
- ➪ **Entry-priced notebook**
- ➪ **Extensive software preload**
- ➪ **Infrared port**
- ➪ **Optional Port Replicator with battery charger and palm rest**

Price						
Type - model **all 2625**	203	W11	205	W12	2625-305	2625-W13
Part number	38H5711	41H8660	38H5712	41H8661	38H5714	41H8662
Preload (see side)	SelSys	Win 95	SelSys	Win 95	SelectaSystem	Windows 95
Disk - capacity	**340 MB**	**340 MB**	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 1995 / Jun 96

Display - diagonal size	**10.4" Dual scan**	**10.4" Black Matrix TFT** - active matrix
Display - type	**VGA color / 640 x 480**	**VGA color / 640 x 480**
Display - colors	256 simultaneous colors	**262,144 simultaneous colors**
Display - contrast	30 to 1	100 to 1

Graphics - controller	Chips and Technologies™ 65545	Chips and Technologies 65545
Graphics - memory	512 KB DRAM	1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz	
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	

Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable*
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III**™	
Ext keyboard support	Yes (with option cable or Port Replicator)	

Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)	
Weight (with battery)	5.9 pounds	5.8 pounds
Battery - type	NiMH / non-intelligent	
Battery - life	3 to 9 hours	
Charge time - on / off	6 hrs / 2 hrs	

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS

MPEG decoder	None
Data/fax modem	None
Audio support	None
Audio in/out jacks	None
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin   92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin   92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3   38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4   42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4   69H7956
- Port Replicator and Charger   38H6303
- NiMH Battery Pack   38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
✂ = Withdrawn from marketing

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(365) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365 (CD-ROM models) - withdrawn

| IBM® ThinkPad®: | ✂ **365CSD**
10.4" dual scan - CD-ROM | | ✂ **365CD**
10.4" TFT - CD-ROM | | **ThinkPad 365 (CD-ROM models) strengths:** |

ThinkPad 365 (CD-ROM models) strengths:

- ⇨ **Entry-priced CD-ROM notebook**
- ⇨ **Integrated audio, microphone, speaker**
- ⇨ **Simultaneous external diskette**
- ⇨ **Joystick/MIDI port**
- ⇨ **Infrared port**

Processor	**Cyrix Cx 486DX4™ 75/25 MHz** / integrated math coprocessor			
Processor upgrade	None			
Memory cache	8 KB in DX4 (write-back) / no L2 cache			
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM			
CD-ROM (not remove)	**5.25" CD-ROM / double speed / multi-session / XA / front loaded / ATAPI**			

Price				
Type - model **all 2625**	2625-A05	2625-W14	2625-B05	2625-W15
Part number	38H5724	41H8663	38H5726	41H8664
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Disk - capacity	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96

Display - diagonal size	**10.4" Dual scan**	**10.4" Black Matrix TFT** - active matrix
Display - type	**VGA color / 640 x 480**	**VGA color / 640 x 480**
Display - color	256 simultaneous colors	**262,144 simultaneous colors**
Display - contrast	30 to 1	100 to 1

Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable*
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III™**	
Ext keyboard support	Yes (with option cable or Port Replicator)	

Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	6.4 pounds | 6.3 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.5 to 9 hours
Charge time - on / off	6 hrs / 2 hrs

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS

MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3** **Internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserve for Windows

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3	38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger	38H6303
- NiMH Battery Pack	38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
✂ = Withdrawn from marketing

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(365CD) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365E - withdrawn

IBM® ThinkPad®:	✂ **365E**
	10.4" dual scan
Processor	**IBM 5x86c™ 100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write back) / no L2 cache
Diskette drive	Internal 3.5" 1.44 MB (not removeable)
CD-ROM	None (can not upgrade)

Price	
Type - model	2625-W9A
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996

Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - colors	256 simultaneous colors
Display - contrast	30 to 1

Graphics - controller	Chips and Technologies™ 65545
Graphics - memory	1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III™**	
Ext keyboard support	Yes (with option cable or Port Replicator)	

Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	5.9 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	6 hrs / 2 hrs

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion)
	VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS

MPEG decoder	None
Data/fax modem	None
Audio support	None
Audio in/out jacks	None
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Supervisor password / Locking device keyhole
	(Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4
1. Triton™ CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 810 MB EIDE HDD 13 ms Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger (old)	38H6303
replaced by	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter - 2 pin	85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F8	=	Reverse video
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation
PgUp	=	Speaker enable
PgDn	=	Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
**International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)**

ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM ThinkPad 365ED - withdrawn

IBM® ThinkPad®:	✂ **365ED**
	10.4" dual scan - CD-ROM
Processor	**IBM 5x86c**™ **100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write-back) / no L2 cache
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed / multi-session / XA / front loaded / ATAPI**
Price	
Type - model	2625-W9G
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996
Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - color	256 simultaneous colors
Display - contrast	30 to 1
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing	**TrackPoint III**™
Ext keyboard support	Yes (with option cable or Port Replicator)
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	6.4 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.3 hours
Charge time - on / off	6 hrs / 2 hrs
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion)
	VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3**
	Internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo)
	Joystick/MIDI port (includes Joystick/MIDI cable)
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / Supervisor password / Locking device keyhole
	(Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Liftable (pop-up) keyboard **to access and remove battery (and upgrade memory and disk); CD-ROM is not removable**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4
1. Triton CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293
- 810 MB EIDE HDD 13 ms Mode 4   42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4   69H7956
- Port Replicator and Charger   (old) 38H6303
                      replaced by 75H7529
- NiMH Battery Pack   38H6304
- 35 watt AC Adapter - 2 pin   85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp   = Speaker enable
PgDn   = Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
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International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM ThinkPad 365X - withdrawn

IBM® ThinkPad®:	✂ **365X** 10.4" SVGA TFT or DSTN color		Key differences between 365E and 365X:

Key differences between 365E and 365X:

365E	**365X**
5x86c 100/33MHz	Pentium 100, 120, 133
8MB fast page (to 24MB)	8MB EDO (to 40MB)
VL-Bus graphics and disk	PCI graphics and disk
10.4" VGA 640x480 LCD	SVGA 800x600
540MB disk standard	810MB or 1.08GB disk
No integrated audio	16-bit audio
Phoenix BIOS	IBM BIOS with
	Easy Setup and
	ThinkPad Features

Processor type	**Pentium® 100/66** / 64-bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	Internal 3.5" 1.44MB ◯ (not removable)
External FDD port	External FDD port (used if purchase CD-ROM upgrade)
Internal CD-ROM	None standard / 4 x CD-ROM option available (not customer install)

Price		
Type - model	2625-6E7	2625-7E7
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 1996 / January 1997
Disk - size / ms	**810MB** / 13ms m / PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Dual scan	**Black Matrix TFT** - active matrix
	256 sim colors / 25 to 1 contrast ratio	65,536 simultaneous colors / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8MB** / 40MB
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	*Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable
Weight	6.0 pounds (2.7 kg)	

Battery - type	NiMH / non-intelligent
Battery - life (1 batt)	2.5 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 365X 4 x CD-ROM Drive	73H7225
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend,
    and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin
    board, fax, electronic, and Internet
    (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM ThinkPad 365X (Fall 1996 models) - withdrawn

IBM® ThinkPad®:	✂ **365X**
	10.4" SVGA TFT or 11.3" SVGA DSTN color

Processor type	**Pentium® 120/60 or 133/66MHz** / 64-bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	Internal 3.5" 1.44MB m (not removable)
External FDD port	External FDD port (used if purchase CD-ROM upgrade)
Internal CD-ROM	None standard / 4 x or 8 x CD-ROM option available which includes an external diskette drive (not customer install)

Price		
Type - model	2625-3E9	2625-2E9
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997
Pentium speed	**120/60MHz**	**133/66MHz**
Disk - size / ms	**810MB** / 13ms ○ / PIO Mode 4	**1.08GB** / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Black Matrix TFT - active matrix	**Dual scan**
	65,536 simultaneous colors / 100 to 1	256 simultaneous colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70ns
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8MB** / 40MB
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III™** / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.1 pounds (2.76 kg)	5.9 pounds (2.67 kg)

Battery - type	NiMH / non-intelligent	***Liftable (pop-up) keyboard* to access and**
Battery - life	2.5 hours	**remove battery (and upgrade memory and**
Charge time - on / off	1.5 hrs / 1.2 hrs	**disk); diskette drive is not removable**

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688**
	One internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole
	(requires cable) / keyboard lock (requires cable)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 365X 4 x CD-ROM Drive	73H7225
- 8 x CD-ROM	83H6726

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 365XD - withdrawn

IBM® ThinkPad®:	**365XD** 10.4" SVGA DSTN / 10.4" SVGA TFT / 11.3" SVGA DSTN	Key differences between 365ED and 365XD:	
		365ED	**365XD**
Processor type	**Pentium® 100/66 or 120/60MHz** / 64-bit transfer to memory	5x86c 100/33MHz	Pentium 100, 120, 133
Processor upgrade	None	8MB fast page (to 24MB)	8MB EDO (to 40MB)
L2 cache	None (not upgradeable)	VL-Bus graphics and disk	PCI graphics and disk
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM	10.4" VGA 640 x 480 LCD	10.4" or 11.3" SVGA
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	540MB disk standard	810MB, 1.08, 1.35GB
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed /** multi-session / XA / front loaded / ATAPI	Phoenix BIOS	IBM BIOS

Price				
Type - model	✂ 2625-6E3	✂ 2625-DEF	✂ 2625-DEE	✂ 2625-EEF
Preload (see side)	**Windows 95**	**Windows 95**	**OS/2 Warp Connect**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 96 / Jan 97	July 1996 / Jan 1997	June 1996 / April 1997
Pentium speed	**100/66MHz**	**120/60MHz**		**120/60MHz**
Disk - size / ms	**810MB** / 13ms ◯ / PIO Mode 4	**1.08GB** / 13ms ◯ / PIO Mode 4		**1.08GB** / 13ms ◯ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk			

Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Dual scan	**Black Matrix TFT** - active matrix	**Dual scan**
	256 sim colors / 25 to 1 contrast ratio	65,536 sim col / 100 to 1 contrast ratio	256 sim colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8MB** / 40MB
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)
Weight	6.4 pounds (2.9 kg)

Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

> ***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); CD-ROM is not removable**

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Puma TranXit™
2. NetFinity for OS/2
3. Triton CoSession™ Host
- Lotus SmartSuite 4.0 (entitled to SSuite 96)

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(365XD) Compiled by Roger Dodson, IBM. May 1999

IBM ThinkPad 365XD (Fall 1996+ models) - withdrawn

IBM® ThinkPad®:	✄ **365XD**
	10.4" SVGA TFT / 11.3" SVGA DSTN / 11.3" SVGA TFT - CD-ROM

Processor type	**Pentium® 120/60 or 133/66MHz** / 64-bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM
External FDD port	External FDD port (works with standard external diskette; no kit required)
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed	5.25" CD-ROM / 6 x speed** (all systems upgradeable to 8 x CD-ROM)
CD-ROM features	Multi-session / XA / front loaded / ATAPI / not bootable / upgradeable

Type - model (code)	2625-4E9 (Clark 4)	2625-GE9 (Clark 4.5)	2625-1E9 (Clark 4)	2625-FE9 (Clark 4.5)
Preload (see side)	**Windows 95**	**Windows 95 OSR2**	**Windows 95**	**Windows 95 OSR2**
Avail / withdrawn date	October 1996 / July 1997	Feb 1997 / July 1997	October 1996 / October 1997	February 1997 / October 1997
Pentium speed	**120/60MHz**	**120/60MHz**	**133/66MHz**	**133/66MHz**
Disk - size / ms	**810MB** / 13ms ○	**1.08GB** / 13ms ○	**1.35 GB** / 13ms ○ / PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk			

Display - size and type	**10.4 inch TFT color**		**11.3 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600		**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Black Matrix TFT - active matrix		**Black Matrix TFT** - active matrix	Dual scan
	65,536 sim col / 100 to 1 contrast ratio		65,536 sim col / 100 to 1 cont ratio	256 sim colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8MB** / 40MB
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III™** / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)
Weight	6.4 pounds (2.9 kg)	6.1 pounds (2.77 kg)	6.2 pounds (2.79 kg)

Battery - type	NiMH / non-intelligent
Battery - life	2.0 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

Liftable (pop-up) keyboard to **access and remove battery (and upgrade memory and disk); CD-ROM is not removable**

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688**
	One internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Easy-Setup is entered by holding F1 when turning on.

810MB	= DMA Mode 2 or PIO Mode 4
1.08GB	= DMA Mode 2 or PIO Mode 4
1.35GB	= DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- **8MB SO DIMM 3.3v NP EDO 64-bit**	**92G7340**
- **16MB SO DIMM 3.3v NP EDO 64-bit**	**92G7341**
- **32MB SO DIMM 3.3v NP EDO 64-bit**	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726
- 2.1GB HDD 13ms 4000 rpm	82H8175

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

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ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

IBM® ThinkPad®:	✂ **370C**		**ThinkPad 370C is positioned between the ThinkPad 360 and ThinkPad 755 family**
	TFT color		

			Advantages over ThinkPad 360CE
Processor type	**IntelDX4**		➪ **DX4 75/25 MHz** (vs DX2 50/25)
Processor speed	**75/25 MHz** / 3.3 volt		➪ **10.4" color TFT** (vs 8.4" color TFT)
Memory cache	16 KB internal (no L2 cache)		➪ **Black Matrix TFT** (vs not Black Matrix)
Coprocessor socket	Integrated in DX4		➪ **36 MB max mem** (vs 20 MB max memory)
Processor / L2 upgrade	None		
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette		
Removable CD-ROM	None		

Price					**ALL 370C MODELS**
Type - model	9545-QPC	9545-QPD	4 MB DIMM w/ Parity	84G2152	*Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory
			8 MB DIMM w/ Parity	84G6539	
Removable disk - size	**340 MB** ❏ ○	**540 MB** ❏ ○	16 MB DIMM w/ Parity	84G2153	
Hard drive - speed	14 ms	14 ms	4 MB IC DRAM 70 ns Parity	92G7232	
Available date	May 1995	May 1995	8 MB IC DRAM 70 ns Parity	92G7233	
Withdrawn date	May 1996	May 1996	16 MB IC DRAM 70 ns Parity	92G7234	
			4 MB IC DRAM 70 ns non-Parity	92G7236	The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.
Display - type	**VGA color** / 640 x 480		8 MB IC DRAM 70 ns non-Parity	92G7237	
Display - colors	256 simultaneous colors		16 MB IC DRAM 70 ns non-Parity	92G7424	
Display - techology	**Black Matrix TFT** - active matrix				
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio / 180 degree tilt				

Graphics - controller — WD90C24A Rev B with 1 MB DRAM
Graphics - vendor — Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path — VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Diskette drive can be removed
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

Memory - std / max	4 MB / 36 MB 70 ns / non-parity / 5 volt
Mem - sockets empty	1 socket
	2, 4, 8, 16 MB ICs or 4, 8, 16 MB DIMMs that
Mem - options available	work on optional Memory Module Adapter

Memory upgraded via
① 1 open socket for IC memory card for 20 MB max or
② DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter

Fn key functions:
- Fuel guage (battery)
- Standby mode
- Suspend mode
- Audio beep on
- Audio beep off
- LCD or CRT or both
- Power mode switching
- Hibernation mode

Keyboard / # of keys	Full size alp/num / 85 keys
Fn key functions	8 (in any appl)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint II**™
Ext keyboard support	Yes (with optional cable)

Dimensions	11.7 x 8.3 x 2.0"
Cubic inches	194 inches
Color	Black
Weight (with battery)	6.3 pounds

Battery - type	Nickel hydride (NiMH) / intelligent
Batt - life (per battery)	2.9 to 8 hours
Charge time - on / off	2 hrs / 1.5 hr

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)

Other features	APM-aware BIOS / Selectable boot
	AC adapter, 35 watts, worldwide, 3 pin, not wallmount
Audio support	Audio beep only
Security	Power-on password / Hard disk password / Supervisor Password / Hardware security loop (secures unit and prevents opening keyboard) / PCMCIA card lock / Optional Security Base

Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only

PREINSTALLED APPLICATIONS

- IBM PC DOS 7.0
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail, for the IBM Global® network,
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0,
4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host,
6. PRODIGY®,
7. SofNet FaxWorks™ 3.0
8. Farallon® Replica™
9. AlphaNet™ FollowFax™
10. Sedona REPRINT™
11. COMPEL™ Personal Edition
12. Video for Windows™ 1.1 Runtime

The ThinkPad 370 family has the same physical design as the ThinkPad 360, 750, and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

ThinkPad 370C supported batteries:

- 750 NiMH battery   66G2846
- 750 Quick Charger   66G2843

Compatible in all 360 family, 370 family, 750 family, and 755 family:
- Disks:	170 MB IDE	66G2847
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 370C:
- TV Tuner	66G3689
- CDPD Mobile module	71G2560
- Car Battery Adapter	49G2167
- FDD External Attachment Kit	66G3618

IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity

FEATURES OF 370C FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB, 1.2 GB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❏ = Upgradeable; ○ = Removable; ✂ = withdrawn from marketing

IBM ThinkPad 380 - withdrawn

IBM® ThinkPad®:	✂ **380** 12.1" SVGA DSTN

Processor type	**Pentium® 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory
Processor upgrade	None
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	None standard / 8 x CD-ROM internal option available (not customer install)

Type - model (code)	**2635-10U**	**All-in-one integration means the disk,**
Preload (see side)	**Windows 95 OSR2**	**diskette drive, and CD-ROM are all within**
Avail / withdrawn date	May 1997 / January 1998	**the covers of the notebook;**
Pentium speed	**150/60 MHz**	**keyboard does not lift up**
Disk - size / ms	**1.08 GB** / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	

Display - size and type	**12.1 inch DSTN color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 simultaneous colors / 30 to 1 contrast

Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight	6.6 pounds (2.96 kg)

Battery - type / life	NiMH / non-intelligent / 2.2 hrs
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs

Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot

Video in/out	None
Data/fax modem	None
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**

Security	Power-on password / Hard disk password / security keyhole

Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
1. Triton CoSession™ Host
2. NetFinity for Windows 95
3. Puma TranXit™
4. IntelliLink Connect
5. IBM Anti-Virus
6. IGN/Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
9. CompuServe WinCIM
10. Lotus Organizer
11. Ergonomics
12. Marketing Demo
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Easy-Setup is entered by holding F1 when turning on.

1.08 GB	=	DMA Mode 2 or PIO Mode 4
1.35 GB	=	DMA Mode 2 or PIO Mode 4
2.1 GB	=	DMA Mode 2 or PIO Mode 4
3.2 GB	=	Ultra DMA/33 or PIO Mode 4
5.1 GB	=	Ultra DMA/33 or PIO Mode 4

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 380:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES OF 380 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 380D - withdrawn

IBM® ThinkPad®:	✂ **380D** 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentium**ª **150/60 MHz or 150/60 MHz with MMX**™ **technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side None since diskette internal **5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model (code) Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	**2635-2AU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz** **1.35 GB** / 13 ms / PIO Mode 4	**2635-3AU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz with MMX technology** **2.1 GB** / 13 ms / PIO Mode 4	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removable / upgrade only by IBM or dealer		
Display - size and type Display - techology	**12.1 inch DSTN color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**12.1 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic**™ **MagicGraph128ZV**™ (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		

<table>
<tr><td colspan="3">

Keyboard / # of keys External keyboard Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator External keyboard support with option cable 06G8619 or Port Replicator TrackPoint III™ / no drag lock keys
Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 7.1 pounds (3.2 kg)
</td></tr>
</table>

Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)
Battery - type / life Charge time - on / off	NiMH / non-intelligent / 2.0 hrs 3.5 to 9 hrs / 2.5 to 3.5 hrs	Li-Ion / non-intelligent / 2.6 hrs
Architecture Docking Station Port replicator PCMCIA™ slots Serial / parallel ports Other features	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338 None ① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator 2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI) One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot	
Video in/out Data/fax modem Audio support Audio in/out jacks Infrared ports	None None **16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port **Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**	
Security	Power-on password / Hard disk password / security keyhole	
Preinstalled software Warranty Service options	Microsoft Windows 95 OSR2 wth applications (listed on right) **1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
1. Triton CoSession™ Host
2. NetFinity for Windows 95
3. Puma TranXit™
4. IntelliLink Connect
5. IBM Anti-Virus
6. IGN/Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
9. CompuServe WinCIM
10. Lotus Organizer
11. Ergonomics
12. Marketing Demo
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

Easy-Setup is entered by holding F1 when turning on.

1.08 GB	= DMA Mode 2 or PIO Mode 4
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4
3.2 GB	= Ultra DMA/33 or PIO Mode 4
5.1 GB	= Ultra DMA/33 or PIO Mode 4

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 380:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (barrel, slim)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES OF 380 MODELS

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US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 380E - withdrawn

IBM® ThinkPad®:	**380E** 12.1" SVGA FRSTN	
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentium® MMX 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / on right side None since diskette internal None standard / internal 8 x CD-ROM option available (not customer install)	
Type - model (code) Preload (see side) Avail / withdrawn date Disk - size / ms Disk controller	**2635-40U** **Windows 95 OSR2** September 1997 / July 1997 **2.1 GB** / 13 ms / PIO Mode 4 EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Display - size and type Display - techology	**12.1 inch FRSTN color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** / Fast Response Super Twisted Nematic (FRSTN) / 150 ms / 70 nits 65,536 simultaneous colors / 35 to 1 contrast ratio	
Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys External keyboard Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator External keyboard support with option cable 06G8619 or Port Replicator TrackPoint III™ / no drag lock keys	
Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 6.7 pounds (3.0 kg)	
Battery - type / life Charge time - on / off	NiMH / non-intelligent / 2.0 hrs 3.5 to 10 hrs / 2.8 hrs	
Architecture Docking Station Port replicator PCMCIA™ slots Serial / parallel ports Other features	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338 None ① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad Enhanced Port Replicator 2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI) One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)	
Video in/out MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None (software support for MPEG-1 in Windows 95) None **16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic Input/microphone jack (stereo) / output jack (stereo) / no joystick port **Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**	
Security	Power-on password / Hard disk password / security keyhole / personalization	
Preinstalled software Warranty Service options	Microsoft Windows 95 OSR2 wth applications (listed on right) **1 year** - ThinkPad EasyServ (depot repair service) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

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The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

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- USB
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- Mouse
- Audio in (3.5 mm)
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- Joystick/MIDI port (15 pin) - not on system
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- Two Type III slots (side by side)
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- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel, slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8 x CD-ROM	73H9795
- 2.1 GB Disk 13 ms	73H9797
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- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

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- Microsoft Windows 95 OSR2 (FAT16)
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4. IBM Anti-Virus
5. IBM Global Network (IGN Dialer)
6. Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
9. Ergonomics
10. PointCast (with ThinkPad channel)
11. Marketing Demo
12. Voyetra Audio Station
13. Quicken SE
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

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Online Housecall (remote diagnostics)

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</table>

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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No warranties are expressed or implied in this summary
(380E) Compiled by Roger Dodson, IBM. June 1998

IBM® **ThinkPad**®

Processor type	**Pentium**® **MMX**™ **166/66MHz**[1] / 64-bit transfer to L2 cache / 64-bit transfer to memory	**All-in-one integration means the**
Processor upgrade	None	**disk, diskette drive, and CD-ROM**
L2 cache	**256KB** / write-through / direct mapped / 8ns / synchronous pipelined burst	**are all within the covers of the**
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side	**notebook;**
External FDD port	None since diskette internal	**keyboard does not lift up**
CD-ROM	**5.25" CD-ROM / 20X-8X**[5] **speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side	

Type - model	✂ **2635-5AU**	✂ **2635-6AU**	✂ **2635-7AU**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / September 1998	September 1997 / September 1998	September 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.0GB** / 13ms / PIO Mode 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removable / upgrade only by IBM or dealer		

Display - size and type	**12.1 inch FRSTN color**	**12.1 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Dual scan / FRSTN / 150ms / 70 nits	**Active Matrix TFT** / 75ms / 100 nits
	65,536 sim colors / 35 to 1 contrast	65,536 simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic**™ **MagicGraph128ZV**™ (NM2093) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	1.125MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**16MB** / 80MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight[2]	7.0 pounds (3.2 kg)

Battery - type / life[10]	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, Port Replicator)
	ISA (audio, diskette, serial, parallel, infrared)
	Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** /
	PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16-bit audio** / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236B
	One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps**

Security	Power-on password / Hard disk password / security keyhole / personalization

Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
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Easy-Setup is entered by holding F1 when turning on.

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5.1GB	= Ultra DMA/33 or PIO Mode 4

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin), parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- **8MB SO DIMM 3.3v NP EDO 64-bit**	**92G7340**
- **16MB SO DIMM 3.3v NP EDO 64-bit**	**92G7341**
- **16MB SO DIMM NP 64-bit (new)**	**01K1124**
- **32MB SO DIMM 3.3v NP EDO 64-bit**	**92G7342**
- **64MB SO DIMM 3.3v NP EDO 64-bit**	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel; slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8X CD-ROM	73H9795
- 2.1GB Disk 13ms	73H9797
- 3.2GB Disk 13ms	02K0487
- 5.1GB Disk 12ms	02K0506
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

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24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®

Processor type	**Intel® Pentium® MMX™ 233/66 or 266/66MHz**[1] / 64-bit to L2 cache and memory
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module
L2 cache	**512KB** / write-through / direct mapped / 8.5ns data; 15ns tag / sync pipelined burst
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up

Type - model	**2635-8AU**	**2635-BAU** (Auth Assb Prog)	**2635-9AU**	**2635-AAU**
Processor	**233/66MHz**	**233/66MHz**	**233/66MHz**	**266/66MHz**
Preload (see side)	**Windows 95 OSR2**	**None**	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	March 1998 / Sept 1998	March 1998 / Sept 1998	March 1998 / Sept 1998
Disk - size / ms	**3.2GB**[4] / 13ms / PIO Mode 4	**Blank**	**4.0GB** / 13ms / PIO 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			

Display - size and type	**12.1 inch HPA color** / **12.1 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600 / **SVGA** / 640x480 or 800x600
	Dual scan / HPA / 150ms / 100 nits / **Active Matrix TFT** / 75ms / 100 nits
	16 mil sim colors / 50 to 1 contrast / **16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys

Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2 kg)

Battery - type / life[10]	Li-Ion / non-intelligent / 8AU: 3.5 hrs; 9AU: 4.5 hrs; AAU: 4.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
	Intel Triton **430TX** PCIset / Intel **PIIX4** (EIDE, USB, PCI to ISA bridge)
	Texas Instruments® **TI1250A** PCMCIA controller
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video
	PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup

Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
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- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 4.0GB disk, 13ms	05K8871
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular cpble	02K4196
- 10/100 Ethernet CardBus PC Card	08L3147

Easy-Setup is entered by holding F1 when turning on.

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- NetFinity for Windows 95
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Intel LANDesk Client Manager (via web)
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Tivoli Lightweight Client Framework
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97
◇ Recovery CD-ROM with boot diskette
◇ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

IBM® **ThinkPad**®

Processor type	**Intel**® **Mobile Pentium**® **II 233/66 or 266/66MHz**[1] / 64-bit to L2 cache and memory	*All-in-one integration means the*
Processor features	No upgrade / processor, L2 cache, and memory cntr (North Bridge) on Mobile Module	*disk, diskette drive, and CD-ROM*
L2 cache	**512KB** / write-back / 4 way set associative / sync pipelined burst / ECC / 1/2 speed	*are all within the covers of the*
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side	*notebook; removable disk;*
External FDD port	None since diskette internal	*keyboard does not lift up*
CD-ROM	**5.25" CD-ROM / 24X-10X speed** / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side	

Type - model	**2635-EAU**	**2635-FAU**
Processor	**233/66MHz**	**266/66MHz**
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1998 / December 1998	May 1998 / December 1998
Disk - size / ms	**4.0GB**[4] / 13ms / PIO Mode 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	

Display - size and type	**12.1 inch HPA color**	**12.1 inch TFT color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Dual scan / HPA / 150ms / 100 nits	**Active Matrix TFT** / 75ms / 100 nits
	16 mil sim colors / 50 to 1 contrast	**16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic**™ **MagicGraph128XD**™ (NM2160B) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys

Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.2 pounds (3.3 kg)
Battery - type / life[10]	Li-Ion / non-intelligent / EAU: 3.1 hrs; FAU: 4.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs

Architecture	PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
	Intel **440BX** PCIset / Intel **PIIX4** (EIDE, USB, PCI to ISA bridge)
	Texas Instruments® **TI1250A** PCMCIA controller
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video
	PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password /
	security keyhole / personalization screen at startup

Preinstalled software	Microsoft® Windows® 95 OSR2.1 with applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ[31] (door-to-door depot repair service) or carry-in
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS		
- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**	
- 16MB SO DIMM 3.3v NP EDO 64-bit	**01K1124**	
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**	
- 64MB SO DIMM 3.3v NP EDO 64-bit	**76H0268**	
- ThinkPad 560 Port Replicator	46H4209	
- ThinkPad 380/385 Port Replicator	84G1316	
- ThinkPad Enhanced Port Replicator	11J8997	
- ThinkPad 380/385 Li-Ion Battery	02K6507	
- 56 watt AC Adapter (barrel; 3 prong)	83H6739	
- 4.0GB disk, 13ms	05K8871	
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- V.90 PC Card Modem with XJACK[24]	10L7393	

Easy-Setup is entered by holding F1 when turning on.

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 233 or 300MHz**[1] / 66MHz system bus			*All-in-one integration means the*
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module			*disk, diskette drive, and CD-ROM*
L2 cache	**512KB** / sync pipelined burst / ECC / half speed			*are all within the covers of the*
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side			*notebook; removable disk;*
External FDD port	None since diskette internal			*keyboard does not lift up*
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side			

Type - model	**2635-HGU**	**2635-JGU**	**2635-HBU**	**2635-JBU**	**2635-JCU** (AAP)
Processor	**Pentium II 233MHz**	**Pentium II 300MHz**	**Pentium II 233MHz**	**Pentium II 300MHz**	**Pentium II 300MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**NT 4.0**	**None**
Disk - size / ms	**4.0GB**[4] / 13ms read / 14ms write / SMART				**None**
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed and upgraded by customer				
Avail / withdrawn date	September 1998 / HGU withdrawn March 1999; others withdrawn June 1999				

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

Display - size and type	**13.3 inch TFT color**
Display - techology	**XGA** / 640x480 or 800x600 or 1024x768 / **Active Matrix TFT** / 75ms / 100 nits
	16.7 million simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D
	2.5MB / SDRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support [26]

Memory - std / max	**32MB** / 96MB or 160MB* / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB /
	socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches); 300.0mm x 233.0mm x 62.0mm
Weight[2]	7.2 pounds (3.3 kg) with battery and disk

Battery - type / life[10]	Li-Ion / non-intelligent / *Hxx:* 3.1 hrs; *Jxx:* 3.3 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs

Architecture	**Intel 440BX** PCIset / Intel **PIIX4E** (EIDE, PCI to ISA bridge, USB)
	Texas Instruments® **TI1250A** PCMCIA controller / NS PC97338 (FDC, IR, I/O)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replor
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECC, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	None
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password /
	security keyhole / personalization screen at startup

Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years
	from purchase date

4.0GB = Ultra DMA/33** or PIO Mode 4
6.4GB = Ultra DMA/33** or PIO Mode 4
All disks are SMART compliant

The **ThinkPad Port Replicator with Advanced EtherJet Feature** provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™. Features:

- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector (no support)
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- PCMCIA 2.1 (no Zoomed Video)
- TI 1250A controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 16MB SO DIMM 3.3v NP EDO 64-bit   01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit   92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit   76H0268
- ThinkPad 560 Port Replicator   46H4209
- Port Replicator w/ Advanced EtherJet   05K4872
- ThinkPad 380/385 Li-Ion Battery   02K6507
- 56 watt AC Adapter (barrel; 3 prong)   83H6739
- 4.0GB disk**, 13ms   05K8871
- 6.4GB disk**, 13ms, Ultra DMA/33   02K0518
- V.90 PC Card Modem with XJACK[24]   10L7393
- 56K PC Card Modem/Cellular cpble   02K4196
- 10/100 Ethernet CardBus PC Card   08L3147
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

Easy-Setup is entered by holding F1 when turning on.

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**

IBM ThinkPad 385D (Retail models) - withdrawn

IBM® ThinkPad®:	✄ 385D 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side None since diskette internal **5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	**2635-2EU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz** **1.35 GB** / 13 ms / PIO Mode 4 EIDE / PCI 2.1 / supports one internal disk /	**2635-3EU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz with MMX technology** **2.1 GB** / 13 ms / PIO Mode 4 no DMA or busmaster support / not removable / upgrade only by IBM or dealer	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Display - size and type Display - techology	**12.1 inch DSTN color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**12.1 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys External keyboard Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator External keyboard support with option cable 06G8619 or Port Replicator TrackPoint III™ / no drag lock keys		
Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life Charge time - on / off	NiMH / non-intelligent / 2.0 hrs 3.5 to 9 hrs / 2.5 to 3.5 hrs	Li-Ion / non-intelligent / 2.6 hrs	
Architecture Docking Station Port replicator PCMCIA™ slots Serial / parallel ports Other features	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338 None ① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator ③ ThinkPad 380/385 Port Replicator 2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI) One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (35 watts) / Selectable boot		
Video in/out MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None None **16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port **Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**		
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software Warranty	Microsoft Windows 95 OSR2 wth applications (listed on right) **1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Lotus SmartSuite
  - WordPro Word Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- IntelliLink Connect
- TranXit
- Online User's Guide
- SystemSoft Card Works
- Password Protected Marketing Demo
- CD-ROMs included in the Shipping Carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 385D, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 385D:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
-ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Easy-Setup is entered by holding F1 when turning on.

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES OF 385D MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(385D) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 385ED (Retail models) - withdrawn

IBM® ThinkPad®:	**385ED** 12.1" SVGA Fast Response STN or Active Matrix / 20x max variable speed CD-ROM	
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentium® MMX™ 166/66 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side None since diskette internal **5.25" CD-ROM / 20x max variable speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**

Type - model (code) UPC code Preload (see side) Avail / withdrawn date Disk - size / ms Disk controller	**2635-5EU** **087944350163** **Windows 95 OSR2** September 1997 / July 1997 **2.1 GB** / 13 ms / PIO Mode 4 EIDE / PCI 2.1 / supports one internal disk / no DMA	**2635-6EU** **087944343660** **Windows 95 OSR2** September 1997 / July 1997 **3.0 GB** / 13 ms / PIO Mode 4 or busmaster support / not removeable / upgrade only by IBM or dealer
Display - size and type Display - techology	**12.1 inch Fast Response color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** / FRSTN / 150 ms / 70 nits 65,536 sim colors / 35 to 1 contrast	**12.1 inch Active color** **SVGA** / 640 x 480 or 800 x 600 **Active Matrix TFT** / 75 ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt
Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw

Keyboard / # of keys External keyboard Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator External keyboard support with option cable 06G8619 or Port Replicator TrackPoint III™ / no drag lock keys	**WINDOWS 95 PRELOAD**
Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 7.1 pounds (3.2 kg)	- Microsoft Windows 95 OSR2 (FAT16) - Lotus SmartSuite 97
Battery - type / life Charge time - on / off	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs 4.2 to 12 hrs / 3.3 hrs	- WordPro Word Processor - 1-2-3 Spreadsheet

- WordPro Word Processor
- 1-2-3 Spreadsheet
- Freelance Graphics
- Approach Database
- Organizer Scheduler
- ScreenCam
- Ergonomics
- Diskette factory and utilities
- ThinkPad customization icon
- IntelliQuest Registration Mailer
- Voyetra Audio Station
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- TranXit™
- Online User's Guide
- SystemSoft Card Works
- PointCast
- Password Protected Marketing Demo
- CD-ROMs included in the shipping carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station Port replicator	None ① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot /** PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports Other features	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)
Video in/out MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None (software support for MPEG-1 in Windows 95) None **16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic/ full duplex spk/mic Input/microphone jack (stereo) / output jack (stereo) / no joystick port **Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**
Security	Power-on password / Hard disk password / security keyhole / personalization
Preinstalled software Warranty	Microsoft Windows 95 OSR2 wth applications (listed on right) **1 year** - ThinkPad EasyServ (optional depot repair service) or carry-in

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 385, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin), parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel; slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 2.1 GB Disk 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES OF 385 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

IBM® ThinkPad®

Processor type	**Pentium® 233/66**[1] **with MMX™ technology, 266/66MHz with MMX™ technology,** or **Pentium II 266/66MHz**
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

Type - model	**2635-8EU**	**2635-9EU**	**2635-DEU**
UPC code	**0-87944-40513-9**	**0-87944-40514-6**	**0-87944-41973-0**
Processor	**Pentium 233/66MHz**	**Pentium 266/66MHz**	**Pentium II 266/66MHz**
Avail / withdrawn date	March 1998 / Sept 1998	March 1998 / Sept 1998	May 1998 / Sept 1998
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer		

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up

Display - size and type	**12.1 inch HPA** (High Performance Addressing) **color**	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 150ms / 100 nits / **16.7 million simultaneous colors** / 50 to 1 contrast	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits **16.7 million simultaneous colors** / 100 to 1 contrast

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs
Battery - type / life[10]	Li-Ion / non-intelligent / 3.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® Triton **430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II
	PIIX4 (EIDE, USB, PCI to ISA bridge)TI® **TI1250A** PCMCIA controller
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	**56KB PC Card Modem / Cellular Capable** / x2 / XJACK connecor (02K4196)
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup
Preinstalled software	Microsoft® Windows® 95 OSR2.1 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- Update Connector
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Media Player
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Expensable
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97
- Voyetra Audio Station
- Rand McNally's Trip Maker
- Quicken 98 (subject to change)
- ◇ EA Sports PGA Tour Golf CD-ROM
- ◇ Recovery CD-ROM with boot diskette
- ◇ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when turning on.

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30], **bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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IBM ThinkPad® 385XD (Windows 98) - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® 233/66MHz**[1] with MMX technology
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / synchronous pipelined burst (66MHz)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

Type - model	**2635-LEU**	*All-in-one integration means the disk, diskette*
UPC code	**0-87944-452188**	*drive, and CD-ROM are all within the covers of*
Avail / withdrawn date	July 1998 / September 1998	*the notebook; removable disk;*
Disk - size / ms	**3.2GB**[4] / 13ms (read); 14ms (write) / PIO 4 / SMART	*keyboard does not lift up*
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	

Display - size and type	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits
	16.7 million simultaneous colors

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk
Battery - type / life[10]	Li-Ion / non-intelligent / 3.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® **Triton 430TX**
	PIIX4 (EIDE, USB, PCI to ISA bridge) / TI® **TI1250A** PCMCIA controller
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **CardBus 32-bit PCI** / Zoomed Video
	PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56KB**[9] **PC Card Modem / Cellular Capable** / x2 / XJACK connector (02K4196)
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password /
	security keyhole / personalization screen at startup

Preinstalled software	Microsoft® Windows® 98 with applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 3 or 5 years

WINDOWS 98 PRELOAD[16]

- Microsoft Windows 98 (FAT16)
- Internet Explorer 4.01
- Online User's Guide
- ThinkPad Configuration Program
- Software Select Utility
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- IBM Update Connector
- Puma IntelliSync 97
- Norton AntiVirus (OEM Version)
- IBM Global Network™ (IGN Dialer)
- Netscape Navigator browser
- RingZero Fax Central
- IntelliQuest Registration Mailer
- Ergonomics
- Intuit Expensable
- ThinkPad on the Net
- Personalization Editor
- Lotus SmartSuite 97
- Rand McNally's Trip Maker
- Quicken 98
- ◇ EA Sports PGA Tour Golf CD-ROM
- ◇ Recovery CD-ROM with boot diskette

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- External Battery Charger	02K6499
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when turning on.

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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IBM ThinkPad® 390 - withdrawn

IBM® ThinkPad®

Processor	**Intel® Pentium® 233MHz**[1] **with MMX™ technology or Mobile Pentium II 233 or 266MHz** / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 150MHz for Pentium II)
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM
External FDD port	None since diskette internal
CD-ROM	**CD-ROM / 24X-10X**[5] **speed /** ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	*Option:* Removable UltraBay FX option / 2X[5] integrated with diskette drive / not supported in Pentium systems (2xx)

All-in-one design: disk, diskette drive, and CD-ROM are all within the covers

Type - model	**2626-20U**	**2626-50U**	**2626-70U**
Processor	**Pentium 233MHz**	*Pentium II 233MHz*	*Pentium II 266MHz*
Disk - size / ms	**3.2GB**[4] / 13ms read / 14ms write / S.M.A.R.T.[29]		**4.3GB**[4] / 13ms read / 14ms write / S.M.A.R.T.[29]
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed to upgrade by customer / supports two internal disks		
Avail / withdrawn date	November 1998 / March 1999		

Display - size and type	**12.1" TFT color / Active Matrix**	**14.1" TFT color / Active Matrix**
Display - techology	**SVGA** / 640x480 or 800x600 / 30ms / 150 nits	**XGA** / 640x480 or 800x600 or **1024x768** / 30ms / 120 nits
	16.7 million simultaneous colors / 100 to 1 contrast	**16.7 million simultaneous colors** / 150 to 1 contrast ratio

Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D
	2.5MB / SDRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support [26]

Memory - std / max	**32MB** / 256MB[33] · **64MB** / 256MB[33]
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit
	2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory
	sockets accessed from bottom via removing cover held by phillips-head screw

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap)
- optional second battery (hot swap); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps

Dimensions	12.4 x 10.1 x 1.8" (225 cubic inches)	12.4 x 10.2 x 1.8" (227 cubic inches)
Weight[2]	7.5 lbs (3.4 kg) with battery and disk	7.7 lbs (3.5 kg) with battery and disk
Case material	PC/ABS plastic	PC/ABS plastic

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Battery - type / life[10]	NiMH / intelligent / 3.25 hrs (1 battery) / left side	Li-Ion / intelligent / 4 hrs / left side
Charge time[10] - on / off	5 hrs on / 2.5 hrs off	6 hrs on / 3 hrs off

Architecture	**Intel Triton 430TX** for Pentium system / **Intel 440BX** PCIset for Pentium II
	Intel PIIX4E (EIDE, PCI to ISA bridge, USB)
	Texas Instruments® **TI1250A** PCMCIA controller / NS PC97338 (FDC, IR, I/O)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio)
	ISA (audio, diskette, serial, parallel, infrared, modem)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

WINDOWS 98 PRELOAD[16]
- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Lotus® SmartSuite Millennium[20]
- PC Doctor
- ConfigSafe
- Norton AntiVirus (OEM Version)
- ThinkPad on the Net (TCC CD)
- ◇ Customization Center CD-ROM
- ◇ Lotus SmartSuite Millennium CD-ROM
- ◇ Product Recovery CD-ROM

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56Kbps**[24] / V.90 / integrated in system / Lucent 1644 / not voice-capable
Audio	16-bit SoundBlaster Pro™ compatible / NeoMagic NMA2 / ISA / full duplex
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX

Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

Resolution	LCD TFT	External Monitor 60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

The **ThinkPad Port Replicator with Advanced EtherJet Feature** provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™[28]. Features:
- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- Power connector
- Two Type III PC Card slots (side by side)
  - PC Card Standard 95 compliant
  - CardBus compliant (PCI 2.1 / 32-bit)
  - PCMCIA 2.1 (no Zoomed Video)

OPTIONS
- 32MB SO DIMM 3.3v NP SDRAM — 76H0294
- 64MB SO DIMM 3.3v NP SDRAM — 20L0241
- 128MB SO DIMM 3.3v NP SDRAM — 01K1150
- ThinkPad 560 Port Replicator — 46H4209
- Port Replicator w/ Advanced EtherJet — 05K4872
- ThinkPad 390/i Series Li-Ion Battery — 02K6513
- 56 watt AC Adapter (barrel; 3 prong) — 83H6739
- 6.4GB disk with UltraBay FX adapter — 05K8923
- 10GB disk with UltraBay FX adapter — 05K8983
- 900MHz Cordless Computer Conn — 04K0064
- V.90 PC Card Modem with XJACK[24] — 10L7393
- 10/100 Ethernet CardBus PC Card — 08L3147
- Smart Card Security Kit — 10L7333
- DVD/Diskette (for UltraBay FX) — 05K8921

- Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA)

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

Pressing F1 during startup brings up IBM BIOS Setup Utility

3.2GB = Ultra DMA/33 or PIO Mode 4
4.3GB = Ultra DMA/33 or PIO Mode 4
6.4GB = Ultra DMA/33 or PIO Mode 4
10GB = Ultra DMA/33 or PIO Mode 4
All disks are S.M.A.R.T.[29] compliant

FEATURES
Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Wake on LAN™ support[28]
Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**

IBM ThinkPad® 390E - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 300 or 366MHz[1] or Mobile Pentium® II 300PE or 333MHz** / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)
L2 cache	*Celeron:* **128KB**; *Pentium II:* **256KB**; *All:* **onboard (full speed)** / sync pipelined burst / ECC / write-back
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM / no external diskette port
CD-ROM	**CD-ROM / 24X-10X[5] speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	*Option:* Removable UltraBay FX option / 2X[5] DVD integrated with a diskette drive

Type - model	✂ **2626-90U**	✂ **2626-C0U**	✂ **2626-D0U**	✂ **2626-E0U**	✂ **2626-ENU**	✂ **2626-A0U**	✂ **2626-B0U**
Processor	**Celeron 300MHz**	**PII 300PEMHz**	**PII 300PEMHz**	**PII 333MHz**	**PII 333MHz**	**PII 333MHz**	**Celeron 366**
Disk - size / ms	**3.2GB[4]** / 13ms	**3.2GB** / 13ms	**4.3GB** / 13ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**None**	**4.8GB** / 12/14ms
Preload (see side)	**Windows 98**	**Windows 98**	**Windows 98**	**Windows 98**	**NT 4.0**	**None**	**Windows 98**
Available date	March 1999	March 1999	March 1999	March 1999	March 1999	April 1999	June 1999
Display (diagonal)	**12.1" TFT SVGA**	**13.3" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**12.1" TFT SVGA**

Display - size and type	**12.1" TFT color** 308mm **/ Active Matrix**	**13.3" TFT color** 338mm **/ Active Matrix**	**14.1" TFT color** 358mm **/ Active Matrix**
Display - technology	**SVGA / 800x600** / 30ms / 150 nits	**XGA / 1024x768** / 30ms / 120 nits	**XGA / 1024x768** / 20 to 30ms / 120 nits
	16.7 millioncolors / 100 to 1 contrast	**16.7 million colors** /100 to 1 contrast	**16.7 million colors** / 150 to 1 contrast

Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis
Graphics - features	Simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]

Memory - std / max	**32MB** / 256MB[33]	**64MB** / 256MB[33]				**0MB** / 256MB[33]	**32MB** / 256MB[33]

Memory - features: **SDRAM** / non-parity / 66MHz / 3.3 volt / 64-bit
2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw

Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks/ 13ms read / 14ms write / S.M.A.R.T.[29]
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / Center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps
Dimensions	90U/C0U/B0U: 12.4 x 10.1 x 1.8" (225 cu in) *Others:* 12.4 x 10.2 x 1.8"
Weight[2] (with batt/disk)	*Celeron models:* 7.5 lbs (3.4 kg) *Pentium models:* 7.7 lbs (3.5 kg)
Case material	PC/ABS plastic
Battery - type	90U/C0U/D0U/B0U: NiMH / intelligent / left side *Others:* Li-Ion / intelligent
Battery - life[10] (1 batt)	90U/C0U: 3.0 hrs D0U: 4 hrs E0U/ENU: 3.8 hrs B0U: 2.67 hrs
Charge time[10]	90U/C0U/B0U: 5 hrs on / 2.5 hrs off *Others:* 6 hrs on / 3 hrs off
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1251A** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[37] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable
Audio	16-bit SoundBlaster Pro™ compatible / ESS 1946 / PCI / full duplex
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite Millennium[20]
- PC Doctor
- ConfigSafe
- Norton AntiVirus (OEM Version)
- ThinkPad on the Net (TCC CD)
- Universal Management Agent
✧ Customization Center CD
✧ Lotus SmartSuite Millennium CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- SystemSoft CardWizard
- Universal Management Agent
✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 98 compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap; W98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

OPTIONS

- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390/i Series Li-Ion Battery	02K6513
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- DVD/Diskette (for UltraBay FX)	05K8921
- CD/Diskette (for UltraBay FX)	05K8986
- 900MHz Cordless Computer Conn	04K0064
- V.90 PC Card Modem with XJACK[24]	10L7393
- 10/100 Ethernet CardBus PC Card	08L3147
- Smart Card Security Kit	33L5075
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

Pressing F1 during startup brings up IBM BIOS

All trademarks are the property of their respective owners
✂ Withdrawn from marketing by December 1999

No warranties are expressed or implied in this summary
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IBM ThinkPad® 390X - withdrawn

IBM® ThinkPad®

Processor	Intel® Mobile Celeron™ 400MHz[1] or Mobile Pentium® II 400MHz / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)
L2 cache	*Celeron:* **128KB**; *Pentium II:* **256KB**; *All:* **onboard (full speed)** / sync pipelined burst / ECC / write-back
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external disktte port
CD-ROM	**CD-ROM / 24X-10X**[5] **speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	*Option:* Removable UltraBay FX option / 4X-1X[5] DVD integrated with a diskette drive

Type - model	**2626-F0U**	**2626-H0U**	**2626-HNU**	**2626-J0U**	**2626-JNU**
Processor / MHz	**Celeron 400**	**Pentium II 400**	**Pentium II 400**	**Pentium II 400**	**Pentium II 400**
Disk - size / read ms	**4.8GB**[4] / 13ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**6.4GB** / 12ms
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Avail / withdrawn date	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00
Display (diagonal)	**12.1" TFT SVGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**15" TFT XGA**	**15" TFT XGA**

Display - size and type	**12.1" TFT color** 308mm **/ Active Matrix**	**14.1" TFT color** 358mm **/ Active Matrix**	**15.0" TFT color** 381mm **/ Active Matrix**
Display - technology	**SVGA / 800x600** / 20 to 30ms / 150 nits	**XGA / 1024x768** / 20 to 30ms / 120 nits	**XGA / 1024x768** / 10 to 30ms / 120 nits
	16.7 million colors / 150 to 1 contrast	**16.7 million colors** /150 to 1 contrast	**16.7 million colors** / 150 to 1 contrast

Graphics controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis Simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]
Memory - std / max	**64MB** / 512MB[33]
Memory - features	**SDRAM** / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T.[29]
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps
Dimensions	*12.1"/14.1":* 12.4 x 10.1 x 1.8" (225 cu in) *15":* 12.9 x 10.6 x 1.8" (246 cu)
Weight[2] (with batt/disk)	*12.1" and 14.1" models:* 7.5 lbs (3.4 kg) *15" models:* 7.9 lbs (3.6 kg)
Case material	PC/ABS plastic
Battery - type	*F0U:* NiMH / intelligent / left side *Others:* Li-Ion / intelligent / left side
Battery - life[10] (1 batt)	*F0U:* 2.5 hrs *Gxx/Hxx:* 3.67 hrs *Jxx:* 3.5 hrs
Charge time[10]	*F0U/Hxx:* 5 hrs on / 2.5 hrs off *Jxx:* 6 hrs on / 3 hrs off
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1251B** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[22] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap with Windows 98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

OPTIONS
- 32MB SO DIMM 100MHz NP SDRAM 20L0253
- 64MB SO DIMM 100MHz NP SDRAM 20L0254
- 128MB SO DIMM 100Mz NP SDRAM 20L0255
- 256MB SO DIMM 100Mz NP SDRAM 33L3069
- Basic (ThinkPad 560) Port Replicator 46H4209
- Port Replicator w/ Advanced EtherJet 05K4872
- ThinkPad 390/i Series Li-Ion Battery 02K6513
- Ultraslim 56 watt AC Adapter (3-prong) 02K6545
- 6.4GB disk with UltraBay FX adapter 05K8923
- 10GB disk with UltraBay FX adapter 05K8983
- 12GB disk with UltraBay FX adapter 05K9268
- 4X-1X DVD/Diskette (for UltraBay FX) 05K9129
- CD/Diskette (for UltraBay FX) 05K8986
- 10/100 EtherJet Ready Port CardBus Adapter with 56K modem 34L1301
- 10/100 Ethernet CardBus PC Card 08L3147
- IBM Portable Drive Bay 37L1511
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

Pressing F1 during startup brings up IBM BIOS Setup Utility

WINDOWS 98 PRELOAD[16]
- Microsoft® Windows® 98
• Access ThinkPad
• Online User's Guide
• ThinkPad Configuration Program
• ThinkPad Utilities
• IBM Update Connector
• RingCentral Fax
• Ergonomics
• Intelliquest Registration
• Puma IntelliSync 97 (infrared)
• IBM Global Network Dialer
• Netscape Communicator
• Lotus® SmartSuite® Millennium[20]
• PC-Doctor
• ConfigSafe®
• Norton AntiVirus™ (OEM Version)
• Universal Management Services
◇ Software Selections CD
◇ Lotus SmartSuite Millennium CD-ROM
◇ Recovery CD-ROM (Windows 98)
◇ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]
- Microsoft Windows NT® 4.0
- Service Pack 4
• ThinkPad Utilities
• Online User's Guide
• ThinkPad Configuration Program
• Ergonomics
• Intelliquest Registration
• Puma IntelliSync 97 (infrared)
• IBM Global Network Dialer
• Netscape Communicator
• ConfigSafe
• Norton AntiVirus (OEM Version)
• IBM Update Connector
• SystemSoft CardWizard
• Universal Management Services
◇ Software Selections CD-ROM
◇ Lotus SmartSuite Millennium CD-ROM
◇ Recovery CD-ROM (Windows NT)

FEATURES
Wired for Management 1.1a-compliant
DMI 2.0-compliant
PC 98-compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR-compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM ThinkPad® 390X (Pentium III) - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Mobile Pentium® III 450 or 500MHz[1] / 100MHz system bus**
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Intel Mobile Module (MMC2)
L2 cache	**256KB** / at processor speed / sync pipelined burst / ECC / write-back
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external disktte port
CD-ROM	**CD-ROM / 24X-10X[5] speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	*Option:* Removable UltraBay FX option / 4X-1X[5] speed DVD integrated with a diskette drive

Type - model	✂ **2626-L0U**	✂ **2626-LNU**	✂ **2626-L2U**	✂ **2626-M0U**	✂ **2626-MNU**
Processor / MHz	**Pentium III 450MHz**	**Pentium III 450MHz**	**Pentium III 450MHz**	**Pentium III 500MHz**	**Pentium III 500MHz**
Disk - size / read ms	**12.0GB[4]** / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms
Preload (see side)	**Windows 98 SE**	**NT 4.0**	**Windows 2000**	**Windows 98 SE**	**NT 4.0**
Avail / withdrawn date	Dec 1999 / Oct 2000	Dec 1999 / Oct 2000	Feb 2000 / Oct 2000	Dec 1999 / Jan 2001	Dec 1999 / Jan 2001
Display (diagonal)	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**15" TFT XGA**	**15" TFT XGA**

Display - size and type	**14.1" TFT color** 358mm **/ Active Matrix**	**15.0" TFT color** 381mm **/ Active Matrix**
Display - technology	**XGA / 1024x768** / 20 to 30ms / 120 nits	**XGA / 1024x768** / 10 to 30ms / 120 nits
	16.7 million colors /150 to 1 contrast	**16.7 million colors** / 150 to 1 contrast

Graphics controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis / simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]

Memory - std / max	**64MB** / 512MB[33]
Memory - features	**SDRAM** / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / sockets accessed from bottom via removing cover held by phillips-head screw
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T.[29]
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps
Dimensions[36]	*14.1"mod:* 12.4 x 10.2 x 1.8" (228 cu in) *15" mod:* 12.9 x 10.6 x 1.8" (246 cu)
Weight[2] (with batt/disk)	*14.1" models:* 7.7 lbs (3.5 kg) *15" models:* 7.9 lbs (3.6 kg)
Case material	PC/ABS plastic
Battery - type	Li-Ion / intelligent / left side
Battery - life[10] (1 batt)	*14.1" models:* 3.7 hrs *15" models:* 3.3 hrs
Charge time[10]	*14.1" models:* 5 hrs on / 2.5 hrs off *15" models:* 6 hrs on / 3 hrs off
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) / Texas Instruments® **TI1251B** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[37] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Edition
- Access ThinkPad
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- ThinkPad on the Net
- Intelliquest Registration
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium[20]
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)
◇ Software Selections CD
◇ Lotus SmartSuite Millennium CD-ROM
◇ Recovery CD-ROM (Windows 98)
◇ Recovery CD-ROM (Windows 95)[7]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- ConfigSafe
- IBM Update Connector
- SystemSoft CardWizard
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)
◇ Lotus SmartSuite Millennium CD
◇ Software Selections CD-ROM
◇ Recovery CD-ROM (Windows 2000)
◇ Recovery CD-ROM (Windows NT)[40]

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap with Windows 98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

Windows 2000 model:
- C: drive is FAT32 of entire disk

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100Mz NP SDRAM	20L0255
- 256MB SO DIMM 100Mz NP SDRAM	33L3069
- Basic (ThinkPad 560) Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390 Li-Ion Battery	02K6513
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- 12GB disk with UltraBay FX adapter	05K9268
- 4X-1X DVD/Diskette (for UltraBay FX)	05K9129
- CD/Diskette (for UltraBay FX)	05K8986
- 10/100 EtherJet Ready Port CardBus Adapter with 56K modem	34L1301
- 10/100 Ethernet CardBus PC Card	08L3147
- Smart Card Security Kit	33L5075
- IBM Portable Drive Bay	37L1511
- IBM MultiPort USB Hub	00N8215

FEATURES

Wired for Management 1.1a-compliant
DMI 2.0-compliant
PC 98-compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR-compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM® ThinkPad®:	✂ **560**	✂ **560**				
	11.3" Dual Scan SVGA color	12.1" TFT SVGA color				
Processor type	**Pentium® 100/66, 120/60, 133/66 MHz** / 64 bit to transfers to memory					
Processor upgrade	None					
L2 cache	None					
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable					
External FDD port	External FDD port (works with standard external diskette; no kit reqd)					
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)					

ThinkPad 560 key features:

- ⇨ **Next generation ultraportable notebook**
- ⇨ **Slim: 1.2 inches**
- ⇨ **Lightweight: 4.1 pounds**
- ⇨ **Full size keyboard**
- ⇨ **Pentium 100/66 to 133/66 MHz**
- ⇨ **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
- ⇨ **PCI bus**
- ⇨ **8 MB EDO memory**

Price		Pallet of 24		Pallet of 24				Pallet of 24
Type - model	2640-50A	2640-50C	2640-E0A	2640-E0C	2640-F0E	2640-F0D	2640-F0G
Preload (see side)	Windows 95	Blank	Windows 95	Blank	Windows 95	OS/2 Warp Connect	Blank
Avail / withdrawn date	May 96 / June 97 and Apr 97		May 1996 / January 1997		Jul 96 / Apr 97	July 1996 / January 1997	
Pentium speed	**100/66 MHz**		**120/60 MHz**		**133/66 MHz**		
Disk - size / ms	**810 MB** / 13 ms		**810 MB** / 13 ms		**1.08 GB** / 13 ms		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk						

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors
	256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Lotus Organizer
3. IntelliLink Connect
4. IBM Internet Connection Services with Netscape Navigator web browser
5. Puma TranXit™
6. Compuserv for Windows
7. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Memory - std / max	**8 MB** / 40 MB (72 MB with ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB

Keyboard / # of keys	**Full size** alp/num / 85 (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint III™ / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Lotus Organizer
2. Puma TranXit™
3. IntelliLink Connect
4. NetFinity for OS/2
5. Triton CoSession™ Host;
- Lotus SmartSuite 4.0 (entitled to SSuite 96)

Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)	
Weight	4.12 pounds (1.87 kg)	4.10 pounds (1.86 kg)

Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	3 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs

Architecture	ISA (audio, diskette, serial, parallel, infrared)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector /
	APM-aware BIOS / Selectable boot IBM BIOS

BLANK PRELOAD

- License for SmartSuite

Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688**
	Int stereo speakers / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speaker/mic
Telephone	None
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Locking device keyhole on back
	(Kensington™ cable lock) / Personalization screen at startup

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope.

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

Compatible in ThinkPad 560 family:

- Disks: (365/760 IDE disks not supported)
  1.08 GB HDD II EIDE 13 ms   46H4208
- 2.1 GB HDD 14 ms   45H8783
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 560 Li-Ion Battery Pack   46H4206
- 35 watt AC Adapter - barrel/3 prong   85G6719
- 35 watt AC Adapter (slim, 2 pin)   76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit   92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit   92G7342

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
✂ = Withdrawn from marketing

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(560) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 560 (1997 models) - withdrawn

IBM® ThinkPad®:	✂ 560 11.3" Dual Scan SVGA color	✂ 560 12.1" TFT SVGA color
Processor type	**Pentium® 133/66 MHz** / 64 bit to transfers to memory	
Processor upgrade	None	
L2 cache	None	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Code name	Kinzie 3	

ThinkPad 560 key features:

- ⇨ **Next generation ultraportable notebook**
- ⇨ **Slim: 1.2 inches**
- ⇨ **Lightweight: 4.1 pounds**
- ⇨ **Full size keyboard**
- ⇨ **Pentium 133/66 MHz**
- ⇨ **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
- ⇨ **PCI bus**
- ⇨ **8 MB EDO memory**

Price		
Type - model	**2640-10U**	2640-20U
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	February 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors
Memory - std / max	**8 MB** / 40 MB (72 MB w/ ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint III™ / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)
Weight	4.12 pounds (1.87 kg) 4.10 pounds (1.86 kg)
Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	3 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / Selectable boot IBM BIOS
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Internal stereo speakers / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IGN/Netscape web browser
8. Ergonomics
9. Lotus Organizer
- Lotus SmartSuite 96 CD-ROM   -

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole (Kensington)
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and
  hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin
  board, fax, electronic, and Internet
  (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Easy-Setup is entered by holding F1 when turning on.

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

OPTIONS

- Disks: (365/760 IDE disks not supported)
  - 1.08 GB HDD II EIDE 13 ms   46H4208
  - 2.1 GB HDD 14 ms   45H8783
  - 4.0 GB HDD 13 ms   02K0501
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 560 Li-Ion Battery Pack 46H4206
- 35 watt AC Adapter - barrel/3 prong 85G6719
- 35 watt AC Adapter (slim, 2 pin) 76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342
- 8-20 x Portable CD-ROM   1969010
- 8-24 x Portable Stereo CD-ROM   1969011
- Other options from ThinkPad Proven partners

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

IBM® ThinkPad®:	✕ 560E 11.3" Dual Scan SVGA color	✕ 560E 12.1" TFT SVGA color
Processor type	**Pentium^â 150/60 MHz or 166/66 MHz / both with MMX technology** / 64 bit transfers to L2 cache and memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-back / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	

Price		
Type - model (code)	**2640-30U**	**2640-40U** s
Processor	**Pentium 150/60 with MMX**	**Pentium 166/66 MHz with MMX technology**
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	June 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 65,536 sim colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 2 MB fast page DRAM / 70 ns	**WINDOWS 95 PRELOAD**
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support	- Microsoft Windows 95 OSR2 (FAT16)
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	- Online User's Guide
Graphics - external	External SVGA to 1024 x 768 with 256 colors	- ThinkPad Features Program
		- PC Card Director 4.0
Memory - std / max	**16 MB** / 80 MB	- Diskette Factory
Memory - features	70 ns / non-parity / 3.3 volt / EDO	1. Triton CoSession™ Host
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB	2. CompuServ for Windows
		3. NetFinity for Windows 95
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)	4. Puma TranXit™
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope	5. IntelliLink Connect
Pointing device	TrackPoint III™ / no drag lock keys	6. IBM Anti-Virus
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	7. IBM Global Network with Netscape
		web browser
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches)	8. Registration Mailer
Weight	4.1 pounds (1.9 kg)	4.1 pounds (1.9 kg)	9. Lotus Organizer
		10. Lotus SmartSuite 96
Battery - type	Lithium Ion / intelligent	- Lotus SmartSuite 96 CD-ROM
Battery - life (1 batt)	3 hours	- Recovery CD-ROM with boot diskette
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	- Windows 95 CD-ROM (no installation)
Architecture	ISA (audio, diskette, serial, parallel, infrared) / NS PC87334 (FDC, IR, I/O)	
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	Disk is not removable (like 755/760
Docking Station	None	systems), but it can be upgraded via a
Port replicator	ThinkPad 560 Port Replicator	dealer or service center (not customer
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III / Cirrus Logic® PD6729	installable).
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) /	
	APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688**	The optional **ThinkPad 560 Port**
	Internal stereo speakers / .5 watt / rotary volume control / internal microphone	**Replicator** acts as a wedge which
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speakers/mic	attaches to the back and bottom of the
Telephone	None	unit and provides a keyboard slope.
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4 Mbps**	Following are its connectors:
Security	Power-on password / hard disk password / Locking device keyhole on back	- Release button
	(Kensington™ cable lock) / Personalization screen at startup	- Security keyhole
		- Mouse
Preinstalled software	Windows 95 with applications (listed on right)	- Keyboard
Warranty	**1 year** - ThinkPad EasyServ (depot repair service) or carry-in	- External monitor
Service options	On-Site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 3 or 5 years	- Parallel
		- Serial (9 pin)

| Easy-Setup is entered by holding F1 when turning on.

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power. | **OPTIONS**

- Disks: (365/760 IDE disks not supported)
  2.1 GB HDD 14 ms   45H8783
  4.0 GB HDD 13 ms   02K0501
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 560 Li-Ion Battery Pack   46H4206
- 35 watt AC Adapter - barrel/3 prong   85G6719
- 35 watt AC Adapter (slim, 2 pin)   76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit   92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit   92G7342
- 64 MB SO DIMM 3.3v NP EDO 64 bit   76H0268
- External 4 x PCMCIA CD-ROM   1969008
- Ext 4 x PCMCIA Stereo CD-ROM   1969009
- 8-20 x Portable CD-ROM   1969010
- 8-20 x Portable Stereo CD-ROM   1969011
- PCMCIA 33.6 Kbps modem   25H6420
- PCMCIA 33.6 modem w/ XJACK   55H6759
- 56K PC Card Modem Kit   04K0052
- Other options from ThinkPad Proven partners | - External diskette drive
- Power jack

FEATURES OF 560E MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics) |

IBM® ThinkPad®

Processor type	**Pentium**® **MMX**™ **200/66 or 233/66MHz**[1] / 64-bit to L2 and memory	
Processor upgrade	None	
L2 cache	**256KB** / write-back / direct mapped / 8ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	

Price		
Type - model (code)	**2640-60U**	**2640-70U**
Processor	**Pentium MMX 200/66MHz**	**Pentium MMX 233/66MHz**
Preload (see side)	**Windows 95 OSR2.1 + IE 4.01**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	November 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 14ms / SMART	**4.0GB** / 13ms / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / Ultra DMA/33 or PIO Mode 4 / supports 1 int disk	

Display - size and type	**12.1" HPA SVGA color** (dual scan)	**12.1" TFT SVGA color** (active matrix)
	640x480 or 800x600	640x480 or 800x600
	262,144 simultaneous colors	262,144 simultaneous colors
Display - techology	30 to 1 contrast / 150ms / 70 nits	100 to 1 contrast ratio

Graphics - controller	**NeoMagic**™ **MagicGraph128XD**™ (NM2160A) / 128-bit SVGA accelerator
Graph - arch/data path	2MB / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support
Graphics - features	Interpolation in X and Y axis / color space conversion
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)

Memory - std / max	**32MB** std / 96MB max
Memory - features	60ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64MB

Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint® III / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)

Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297 mm x 222 mm x 31 mm	
Weight[2]	4.17 pounds (1.89 kg)	4.14 pounds (1.88 kg)

Battery - type / life[10]	Lithium Ion / intelligent / 3.5 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) /
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
	Intel 430TX PCIset / PIIX4 (EIDE, USB, PCI to ISA bridge) / **TI1250A**
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator / ThinkPad Enhanced Port Replicator
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video
	PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
USB port	**One USB port**
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector /
	APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio** (if use ext speakers)
	Internal mono speaker / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / not full duplex speakers/mic
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps**

Security	Power-on password / hard disk password / security keyhole on back /
	personalization screen at startup

Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-Site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

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ThinkPad Enhanced Port Replicator provides cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB
- Serial (RS-232, 9 pin), Parallel (25 pin)
- External display, Keyboard, Mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)

OPTIONS

-	2.1GB disk, 14ms	45H8783
-	4.0GB disk, 13ms	02K0501
-	6.4GB disk, 13ms, Ultra DMA/33	02K0518
-	ThinkPad 560 Port Replicator	46H4209
-	ThinkPad Enhanced Port Replicator	11J8997
-	ThinkPad 560 Li-Ion Battery Pack	46H4206
-	56 watt AC Adapter (barrel; 3 prong)	83H6739
-	8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
-	16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
-	16MB SO DIMM NP EDO 64-bit (new)	01K1124
-	32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
-	64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
-	20X-8X Portable CD-ROM	1969010
-	20X-8X Portable Stereo CD-ROM	1969011
-	PCMCIA 33.6Kbps modem	25H6420
-	PCMCIA 33.6 modem w/ XJACK	55H6759
-	56K PC Card Modem Kit	04K0052
-	56K PC Card Modem/Cellular Capable	02K4196

New features of 560X (compared to 560E):

- ➪ 200 or 233MHz Pentium (vs 150 or 166)
- ➪ 32MB memory standard (vs 16MB)
- ➪ 96MB maximum memory (vs 80MB)
- ➪ CardBus and Zoomed Video PC Cards
- ➪ One USB port (vs none)
- ➪ Supports Enhanced Port Replicator
- ➪ 430TX (vs 430MX)
- ➪ MagicGraph128XD (vs CYBER9382)
- ➪ 256K simultaneous colors (vs 64K)
- ➪ 56 watt AC Adapter (vs 35 watt)
- ➪ ConfigSafe and LANDesk preloaded

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network with Netscape web browser
- Intelliquest Registration Mailer
- Artisoft ConfigSafe
- Intel® LANDesk® Client Manager
- PointCast (with ThinkPad channel)
- Ergonomics
- Lotus® SmartSuite 97
- NetFinity for Windows 95 (license only)
- ◇ Recovery CD-ROM with boot diskette
- ◇ Windows 95 CD-ROM (no installation)

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

Easy-Setup is entered by holding F1 when turning on.

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide, User's Guide, Up and Running
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™**:** customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 233 or 300MHz**[1] / 66MHz system bus
Processor features	No processor upgrade / processor on Mini-Cartridge
L2 cache	**512KB** / synchronous pipelined burst / ECC / half speed
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable
External FDD port	External FDD port (works with standard external diskette; no kit reqd)
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)

	2640-90U	**2640-91U**	**2640-B0U**	**2640-B1U**
Type - model				
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Processor	**Pentium II 233MHz**		**Pentium II 300MHz**	
Disk - size / ms	**4.0GB**[4] / 13ms / SMART[29]		**6.4GB** / 13ms / SMART	
Disk controller	Disk can be removed and upgraded by customer / Ultra DMA/33 or PIO Mode 4 EIDE / busmaster / PCI 2.1 / supports one internal disk			
Avail / withdrawn date	September 1998 / 90U and 91U withdrawn March 1999; others on June 1999			

Display - size and type	**12.1" TFT SVGA color** (active matrix) All models: 640x480 or 800x600 - C: drive is FAT16 of 2GB 16.7 million simultaneous colors - D: drive is FAT32 (if W98) or
Display - techology	100 to 1 contrast ratio FAT16 (if NT) of remaining space
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160) / 128-bit SVGA accelerator
Graph - arch/data path	**2MB** / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support
Graphics - features	Interpolation in X and Y axis / color space conversion
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)
Memory - std / max	**32MB** std / 96MB or 160MB* max **64MB** std / 128MB or 192MB* max
Memory - features	60ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144-pin EDO SO-DIMM of 16, 32, or 64MB
Keyboard / # of keys	**Full size** alp/num keys / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297mm x 222mm x 31mm
Weight[2] with battery	90U: 4.1 lbs (1.88 kg) B0U/B1U: 4.2 lbs (1.92 kg)
Battery - type / life[10]	Lithium Ion / intelligent / 3.0 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs
Architecture	**Intel 440BX PCIset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / **TI PCI1250A** ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking Station	None
Port replicator	Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replicator
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
USB port	**One USB port**
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56Kbps**[23] **PC Card modem** / x2 / cellular capable / XJACK / IBM pn 02K4196
Audio support	**16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio** (if use ext speakers) Internal mono speaker / .5 watt / keyboard volume control / internal microphone
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / full duplex speakers/mic
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps**
Security	Power-on password / hard disk password / security keyhole on left side / personalization screen at startup
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

ThinkPad Port Replicator with Advanced EtherJet Feature. Features include:

- 10/100 ethernet (Intel 82558, Wake on LAN™)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- PCMCIA 2.1 support (no Zoomed Video)
- TI 1250A controller

OPTIONS

- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet™	05K4872
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 16MB SO DIMM 3.3v NP EDO 64-bit	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- 20X-8X Portable CD-ROM	1969010
- 20X-8X Portable Stereo CD-ROM	1969011
- 56K PC Card Modem/Cellular Capable	02K4196
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad on the Net
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- IBM Product Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Lotus® SmartSuite 97
- Artisoft ConfigSafe
- Norton AntiVirus
- ◇ Customization Center CD-ROM
- ◇ Product Recovery CD-ROM (with boot diskette)

WINDOWS NT PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 3
- ThinkPad Utilities
- Online User's Guide
- Puma IntelliSync 97 (infrared)
- ConfigSafe
- Norton AntiVirus (OEM Version)
- Ergonomics
- IBM Product Registration
- SystemSoft CardWizard
- ◇ Customization CD-ROM (apps/drivers)
- ◇ Product Recovery CD-ROM (with boot diskette)

Easy-Setup is entered by holding F1 when turning on.

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Setup Guide, User's Guide, Windows 98 or NT Manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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All trademarks are the property of their respective owners
* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor

No warranties are expressed or implied in this summary
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IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 300PE, 333MHz, or 366MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase
CD-ROM	*Option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraBase
DVD-ROM	*Option:* **DVD-ROM** / bootable / removable from UltraBase

	2644-2AU	2644-1AU	2644-1BU	2644-3AU	2644-3BU
Type - model	✂ **2644-2AU**	✂ **2644-1AU**	✂ **2644-1BU**	**2644-3AU**	**2644-3BU**
Processor	**PII 300PE**	**PII 333MHz**	**PII 333MHz**	**PII 366MHz**	**PII 366MHz**
Display (diagonal)	**12.1" TFT**	**13.3" TFT**	**13.3" TFT**	**13.3" TFT**	**13.3" TFT**
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Disk (removable)	**4.0GB**[4] / 13/14ms			**6.4GB** / 13/14ms	
	PIO4 or Ultra DMA/33 / 9.5mm				
Avail / withdr date	April 1999 / 2AU withdrawn Dec 99; 1AU, 1BU on Mar 2000; 3AU, 3BU on July 00				

Memory (std / max)	**64MB** std / 192MB max
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base
	One 144-pin socket / 64MB on planar / 1 socket available
Display	**12.1"** (307.3mm) **TFT color / Active Mat** **13.3"** (337.8mm) **TFT color / Active Mat**
	SVGA / 800x600 / 100 to 1 contrast ratio **XGA / 1024x768** / 150 to 1 contrast ratio
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt /
	125 nits (AC), 70 nits (battery)
Graphics - controller	**NeoMagic™ MagicMedia256AV™ (NM2200)** / **Accelerated Graphics Port**
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface
Graphics - features	AGP 1X / no sideband signaling / **motion compensation** / DDC2B /
	simultaneous LCD and CRT[26] / multiple-monitor support[26] for Windows 98
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	*2AU:* 11.8 x 9.4 x 1.0" *Others:* 11.8 x 9.4 x 1.1" (122 cubic inches)
Weight[2]	*2AU:* 3.9 lbs (1.78 kg) with battery *Others:* 4.0 lbs (1.83 kg) with battery
Weight w/ UltraBase	with CD-ROM and diskette drives: *2AU:* 6.8 lbs (3.07 kg) *Others:* 6.9 lbs (3.12 kg)
Case material	*Top:* carbon-fiber reinforced plastic; *Bottom:* glass-fiber reinforced plastic
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	*1xx:* 3.3 hrs; *2xx:* 3.5 hrs; *3xx:* 3.0 hrs / supports 2nd battery in UltraBase
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /
	TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer /
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) /
	PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)
Port replicator (opt)	**UltraBase** / the following are supported by attachment to UltraBase or Direct Dock
	Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator
Docking Station	None (UltraBase has two bays)
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)
Video (TV) out	None
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)
Data/fax modem	**56K**[37] / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 /
	international programmable DAA / Mini PCI Type IIIb
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) /
	full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole /
	Phillips-head screw on base for memory / optional Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- 32MB SO DIMM 3.3v NP SDRAM	76H0294	- 6.0GB disk, 12ms, ATA-66	05K9199
- 64MB SO DIMM 3.3v NP SDRAM	20L0241	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 128MB SO DIMM 3.3v NP SDRAM	01K1150	- 10.0GB disk, 12ms, Ultra DMA/33	36L9293
		- 12.0GB disk, 12ms, ATA-66	05K9200
		- 18.0GB disk, 12ms, ATA-66	37L2993

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768*	16M	16M	16M	16M	16M
1280x1024**	256	256	--	--	--

*   Virtual screen mode on 12.1" TFT screen
** Virtual screen mode on both 12.1" and 13.3"

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT)
  of remaining space

- **ThinkPad 570 UltraBase**	**05K5840**
- Direct Dock Adapter (from CompuLock)	00N4650
- Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 24X-10X[5] CD-ROM (UltraslimBay)	05K9122
- 2X[5] DVD Drive (UltraslimBay)	05K8890
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB Drive 570/600(UltraslimBay)	37L1507
- ThinkPad 570 Li-Ion Battery	02K6546

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
• ThinkPad Utilities
• ThinkPad Configuration Program
• ThinkPad on the Net
• IBM Update Connector
• Online User's Guide
• Ergonomics
• Intelliquest Registration
• RingCentral
• Puma Intellisync 97 (on CD)
• IBM Global Network Dialer
• Netscape Communicator
• ConfigSafe®
• Norton AntiVirus™ (OEM Version)
• PC-Doctor
• Universal Management Agent (on CD)
• Norton Mobile Essentials
• Lotus® SmartSuite® Millennium[20]
• Access ThinkPad
✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4a
• ThinkPad Utilities
• ThinkPad Configuration Program
• IBM Update Connector
• Online User's Guide
• Ergonomics
• Intelliquest Registration
• RingCentral (on CD)
• Puma Intellisync 97 (on CD)
• IBM Global Network Dialer (on CD)
• Netscape Communicator (on CD)
• ConfigSafe
• Norton AntiVirus (OEM Version)
• PC-Doctor
• Universal Management Agent (on CD)
• Access ThinkPad (on CD)
• SystemSoft CardWizard (on CD)
✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)
✧ Lotus SmartSuite Millennium[20] CD

ULTRABASE OPTION

Left bay of UltraBase supports most
UltraslimBay options:
• optional CD-ROM (hot or warm swap)
• optional DVD drive (hot or warm swap)
• optional LS-120 SuperDisk drive (cold
  swap only)
• optional Zip 100MB drive (cold swap)
• optional HDD adapter; for second disk
  (cold swap only)
• optional ThinkPad Proven™ solutions[12]
UltraBase right bay supports:
• standard diskette drive (hot swap)
• battery (uses standard 570 battery)
Other features
• stereo speakers (0.5 watts)
• security keyhole, UltraBase lock
• MIDI/joystick port, line out, USB port

PC 98 and DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick
   Reference and Service Info Card,
   Options catalog, Windows manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and
   hibernation modes
ENERGY STAR compliant
Personalized Web-based support
International Warranty Service[14]
IBM SystemXtra®[35]
24 hour / 7 day[30] telephone, bulletin
   board, fax, electronic, and Internet
   (www.ibm.com/pc/us) support

IBM ThinkPad® 570E - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® III 450 or 500MHz[1] with 100MHz system bus**
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase
CD-ROM	*Option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraBase
DVD-ROM	*Option:* **6X-2X**[5] **DVD-ROM** / bootable / removable from UltraBase

Type - model	✂ **2644-5AU**	✂ **2644-5BU**	✂ **2644-6AU**	✂ **2644-6BU**
Processor	**Pentium III 450**	**Pentium III 450**	**Pentium III 500**	**Pentium III 500**
Preload (see side)	**Windows 98 SE**	**Windows 2000**	**Windows 98 SE**	**Windows 2000**
Disk (removable)	**6.0GB**[4]	**6.0GB**	**12.0GB**	**12.0GB**

All disks: 12ms read / 14ms write / ATA-66 or PIO4 / 9.5mm / S.M.A.R.T.[29]

Avail / withdrawn date	February 2000 / 5AU and 5BU on July 2000, 6AU and 6BU on February 2001
Memory (std / max)	**64MB** std / 320MB max **SDRAM** / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available
Display	**13.3"** (337.8mm) **TFT color / Active Matrix** **XGA / 1024x768** / 150 to 1 contrast ratio
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port** **2.5MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface
Graphics - features	AGP 1X / no sideband signaling / **motion compensation** / DDC2B / simultaneous LCD and CRT[26] / multiple-monitor support[26] for Windows 98
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4M / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	11.8 x 9.4 x 1.1" (122 cubic inches)
Weight[2]	3.97 lbs (1.80 kg) with battery
Weight	with optional UltraBase CD-ROM and diskette drives: 6.9 lbs (3.12 kg)
Case material	*Top:* carbon-fiber reinforced plastic; *Bottom:* glass-fiber reinforced plastic
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / supports 2nd battery in UltraBase
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4M** (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)
Port replicator (opt)	**UltraBase** / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator
Docking Station	None (UltraBase has two bays)
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)
Video (TV) out	None
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)
Data/fax modem	**56K**[22] / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- ThinkPad Configuration Program
- IBM Update Connector
- Online User's Guide
- IBM Registration
- RingCentral Fax
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- PC-Doctor
- Universal Mgmt Services (web)
- Norton Mobile Essentials
- Symantec Mobile Essentials
- Access ThinkPad
- ✧ Software Selections CD-ROM
- ✧ Lotus® SmartSuite® Millennium CD
- ✧ Recovery CD-ROM (Windows 98)
- ✧ Recovery CD-ROM (Windows 95)[40]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- Universal Mgmt Services (web)
- ConfigSafe
- IBM Update Connector
- Norton AntiVirus (OEM version)
- ✧ Software Selections CD-ROM
- ✧ Lotus SmartSuite Millennium CD
- ✧ Recovery CD-ROM (Windows 2000)
- ✧ Recovery CD-ROM (Windows NT)[40]

ULTRABASE OPTION

Left bay of UltraBase supports most UltraslimBay options:
- optional CD-ROM (hot or warm swap)
- optional DVD drive (hot or warm swap)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

UltraBase right bay supports:
- standard diskette drive (hot swap)
- battery (uses standard 570 battery)

Other features
- stereo speakers (0.5 watts)
- security keyhole, UltraBase lock
- MIDI/joystick port, line out, USB port

PC 98 and DMI 2.0 compliant
DMI instrumentation
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized Web-based support
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

- 6.0GB disk, 12ms, ATA-66	05K9199
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk (UltraBase only)	37L2993

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHzNP SDRAM	20L0255
- 256MB SO DIMM 100MHzNP SDRAM	33L3069
- **ThinkPad 570 UltraBase**	**05K5840**
- Direct Dock Adapter (from CompuLock)	00N4650
- Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 24X-10X[5] CD-ROM (UltraslimBay)	05K9122
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB Drive 570/600(UltraslimBay)	37L1507
- ThinkPad 570 Li-Ion Battery	02K6546
- ThinkPad 570 Battery Charger	02K6570
- IBM 340MB microdrive	00N8073

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024*	256	256	--	--	--

* Virtual screen mode on 13.3" TFT screen

Windows 98 models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Windows 2000 models:
- C: drive is FAT32 of entire drive

IBM® ThinkPad®

Processor type/path	**Intel® Pentium® MMX™ 233/66MHz**[1] or **Pentium II 233/66 or 266/66MHz**
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and half speed for Pent II)
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay (CD-ROM models include external diskette enclosure)
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)
CD-ROM (removble)	*Standard or option:* **5.25" CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay
DVD[19] (removable)	*Option:* 2X[5] DVD-ROM drive / removable UltraslimBay option / warm swap
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping
- std diskette and travel cover
- std or optional CD-ROM
- optional DVD drive[19]
- opt LS-120 SuperDisk drive (cold swap)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter (cold swap)
- optional ThinkPad Proven™ solutions[12]

	2645-21U	2645-31U	2645-35U	2645-41U	2645-51U	2645-A1U
Type - model	✂ **2645-21U**	✂ **2645-31U**	✂ **2645-35U**	✂ **2645-41U**	✂ **2645-51U**	✂ **2645-A1U**
Processor	**Pent 233/66**	**Pent 233/66**	*PII 233/66MHz*	*PII 233/66MHz*	*PII 266/66MHz*	*PII 266/66MHz*
Display (diagonal)	**13.0" HPA XGA**	**12.1 TFT SVGA**	**12.1 TFT SVGA**	**13.3" TFT XGA**	**13.3"TFT XGA**	**13.3"TFT XGA**
Disk (removable)	**3.2GB**[4] / PIO4	**3.2GB** / PIO4	**3.2GB** / PIO4	**3.2GB** / PIO4	**4.0GB** / PIO4	None (AAP)
Preload (see side)	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	Blank (no disk)
CD-ROM	**CD-ROM std**	Optional	**CD-ROM std**	**CD-ROM std**	**CD-ROM std**	None (AAP)
Modem	**56Kbps**	Opt PC Card	**56Kbps**	**56Kbps**	**56Kbps**	**56Kbps**
Avail / withdr date	Apr 98/Dec 98	Apr 98/Dec 98	Aug 98/Mar 99	Apr 98/Aug 98	Apr 98/Mar 99	Apr 98/Aug 98

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Memory - std / max	**32MB** / 256MB[3] (TX max=256) **32MB** std / 288MB maximum
Memory - upgrade	**SDRAM /** non-parity / 66MHz / 3.3v / 2 sockets available for two JEDEC 144-pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom
Display	(See below) SVGA or XGA color / TFT or HPA / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph128XD**™ (NM2160B) / 128-bit SVGA accelerator
Graphics - arch	**2MB** / iDRAM™ (embedded) / Zoomed Video support
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up)
Pointing device	**TrackPoint**® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	4.72 lb (2.14 kg) to 5.62 lb (2.55 kg)
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II systems PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III /** SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	*Some models:* 56Kbps (x2, upgradeable to v.90[9]) / 14.4Kbps fax / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4237B / 16-bit / **SRS 3D audio** / FM synthesis Int stereo speakers (front) / .5 watt **/** Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / **up to 4Mbps**
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 95 PRELOAD[16]
- Microsoft® Windows® 95 OSR2.1
- Internet Explorer 4.01
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Customization Center
- Puma IntelliSync 97 (infrared)
- IBM AntiVirus 3.02 (not installed)
- ConfigSafe 1.05 (must install)
- IBM Global Network Dialer 4.15.6 with Netscape Navigator web browser
- Intel LANDesk® Client Manager 3.1 (not installed)
- PointCast with ThinkPad channel
- Ergonomics
- Netfinity 5.1 for Windows 95 (not installed)
- Tivoli Light Client Framework (not installed)
- Lotus® SmartSuite 97[20]
- Ring Zero RingCentral 4.10
- Intel Video Phone 2.0.1
- IBM Update Connector
- IBM Product Registration
- ◇ Customization CD-ROM (apps/drivers)
- ◇ Recovery CD-ROM with boot diskette

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	13ms read/14ms write	
9.5 mm	PIO Mode 4 or Ultra DMA/33	
- 4.0GB	13ms read/14ms write	
12.5 mm	PIO Mode 4 or Ultra DMA/33	
- 6.4GB	13ms read/14ms write	
12.5 mm	PIO Mode 4 or Ultra DMA/33	

FEATURES
PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI 1.0 compliant
Wired for Management 1.1a
Wake on LAN™ support[28]
C: is 1.99GB, D: is up to 1.99GB, etc.
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 95 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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13.0" (330.2 mm) HPA XGA color
- HIgh Performance Addressing (Dual Scan)
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)
- 150ms; 40 to 1 contrast ratio
- 70 nits (AC), 40 nits (battery)

12.1" (307.5 mm) TFT SVGA color
- Active Matrix TFT
- 640x480 (16 million) or 800x600 (16 million simultaneous colors)
- 75ms; 100 to 1 contrast ratio
- 110 nits (AC), 70 nits (battery)

13.3" (337.8 mm) TFT XGA color
- Active Matrix TFT
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)
- 75ms; 100 to 1 contrast ratio
- 150 nits (AC), 90 nits (battery)

- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 10GB disk, 12ms, Ultra DMA/33	36L9293
- **SelectaBase 600**	**12J2467**
- PC Card Enabler[17]	83H6741
- PC Card Enabler with EtherJet™[17]	05K4820
- SelectaDock I	3547001
- SelectaDock II	3547002
- **SelectaDock III**[17]	**3547003**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **24X-10X CD-ROM** (UltraslimBay; includes external diskette enclosure)	12J2471
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- ThinkPad 600 Li-Ion Battery	12J2464
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 2X DVD Drive (UltraslimBay)	05K8890
- Zip 100MB UltraslimBay Drive	37L1504

All trademarks are the property of their respective owners
☞ = Announced August 18, 1998

IBM ThinkPad® 600 - September 1998 - withdrawn

IBM® ThinkPad®

Processor type/path	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst / ECC / 150MHz (half speed)
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)
CD-ROM (removble)	**5.25" CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap
	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay
DVD[19] (removable)	*Option:* 2X[5] DVD-ROM drive / removable UltraslimBay option / warm swap
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette

	2645-45U	2645-85U	All models:
Type - model	**2645-45U**	**2645-85U**	- C: drive is FAT16 of 2GB
Preload (see side)	**Windows 98**	**Windows NT 4.0**	- D: drive is FAT32 (if W98) or
Disk (removable)	**5.1GB**[4] / 12ms (read);13ms (write) / upgradeable		FAT16 (if NT) of remaining space
Avail / withdr date	September 1998 / June 1999		

Memory	**64MB** std / 288MB[25] maximum / **SDRAM** / non-parity / 66MHz / 3.3v
	Two 144-pin sockets / 32MB on planar and 1 socket used by 32MB SO-DIMM /
	1 socket available / sockets accessed by removing screw on bottom
Display	**13.3" (337.8mm) TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/
	640x480 or 800x600 (16.7 million colors), 1024x768 (65,536 colors) /
	150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator
Graphics - arch	**2MB** / iDRAM™ (embedded) / Zoomed Video support
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk inopt HDD adapter
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	5.01 lbs (2.27 kg) with travel cover and battery only
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX and PIIX4** (EIDE, ISA Bridge, USB)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion)
	TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O /
	ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III** / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56K** (x2, upgradeable to v.90[9]) / 14.4Kbps fax / telephony / voice-capable
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4237B / 16-bit / **SRS 3D audio** / FM synthesis
	Int stereo speakers (front) / .5 watt **/** Fn+PgUp and PgDn (volume) **/** int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / **up to 4Mbps**
Security	Power-on password / hard disk password / supervisor password / security keyhole /
	personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from
	purchase date

- 56K PC Card Modem Kit	04K0052	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- 56K PC Card Modem/Cellular capab	02K4196	- 10GB disk, 12ms, Ultra DMA/33	36L9293	
- V.90 PC Card Modem with XJACK[24]	10L7393	- **SelectaBase 600**	**12J2467**	
- EtherJet PC Card Combo	72H4534	- PC Card Enabler[17]	83H6741	
- IBM 10/100 EtherJet CardBus PC Cd	08L3147	- PC Card Enabler with EtherJet™[17]	05K4820	
- UltraslimBay HDD adapter (for 2nd disk)	05K5336	- SelectaDock I	3547001	
- SuperDisk LS-120 (UltraslimBay)	20L1929	- SelectaDock II	3547002	
- 2X DVD Drive (UltraslimBay)	05K8890	- **SelectaDock III**[17]	**3547003**	
		- 56 watt AC Adapter (barrel; 3 prong)	83H6739	

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and weight-saver bezel
- std or optional CD-ROM
- optional DVD drive[19]
- optional Zip 100MB drive (cold swap)
- opt LS-120 SuperDisk drive (cold swap)
- opt HDD adapter; second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

- **24X-10X CD-ROM** (UltraslimBay; includes external diskette enclosure)	**12J2471**
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- **64MB SO DIMM 3.3v NP SDRAM**	**20L0241**
- **128MB SO DIMM 3.3v NP SDRAM**	**01K1150**
- ThinkPad 600 Li-Ion Battery	12J2464
- External Battery Charger	02K6499
- Zip 100MB UltraslimBay Drive	37L1504

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- RingCentral
- Ergonomics
- IBM Product Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- IBM Update Connector
- Artisoft ConfigSafe
- Norton AntiVirus
- ◇ Lotus® SmartSuite Millennium CD-ROM
- ◇ Customization Center CD-ROM
- ◇ Product Recovery CD-ROM (with boot diskette)

WINDOWS NT PRELOAD[16]

- Windows NT® Workstation 4.0
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Puma IntelliSync 97 (infrared)
- ConfigSafe
- IBM Global Network Dialer
- Netscape Navigator web browser
- Norton AntiVirus (OEM Version)
- Ergonomics
- IBM Product Registration
- SystemSoft CardWizard
- ◇ Lotus SmartSuite Millennium CD-ROM
- ◇ Customization CD-ROM (apps/drivers)
- ◇ Product Recovery CD-ROM (with boot diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	13ms read/14ms write
9.5 mm	PIO Mode 4 or Ultra DMA/33
- 4.0GB	13ms read/14ms write
12.5 mm	PIO Mode 4 or Ultra DMA/33
- 5.1GB	12ms read/13ms write
12.5 mm	PIO Mode 4 or Ultra DMA/33
- 6.4GB	13ms read/14ms write
12.5 mm	PIO Mode 4 or Ultra DMA/33

FEATURES

Wired for Management 1.1a
PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wake on LAN® support[28]
C: is 1.99GB, D: is up to 1.99GB, etc.
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst / ECC / 150MHz (half speed)
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal DVD)
CD-ROM (removble)	*Option:* **CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap
	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay
DVD (removable)	*Std or option:* 2X[5] DVD-ROM / removable from UltraslimBay / warm swap
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette

Type - model	**2645-55U**	**2645-A5U** (AAP)	All models:
Preload (see side)	**Windows 98**	**Blank** (no disk)	- C: drive is FAT16 of 2GB
Disk (removable)	**6.4GB**[4] / 13/14ms	**None**	- D: drive is FAT32 of remaining
DVD-ROM drive	**DVD-ROM**	**None**	space
Avail / withdr date	Nov 1998 / Mar 1999	Nov 1998 / Mar 1999	

Memory	**64MB** std / 288MB[25] max **32MB** std / 288MB max
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available /
	for 64MB model, one socket used by 32MB SO-DIMM
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/
	640x480, 800x600, or 1024x768 (up to 16.7 million colors)
	150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port**
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis
	Multiple-monitor support[26] for Windows 98 / DDC2B / Direct3D
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full size alp/num keys/ 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	4.99 lbs (2.27 kg) with travel cover and battery only
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III** / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video out	Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K** / v.90[22] / 14.4Kbps fax / telephony / voice-capable /
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole /
	personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- 56K PC Card Modem Kit	04K0052	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 56K PC Card Modem/Cellular capab	02K4196	- 10GB disk, 12ms, Ultra DMA/33	36L9293
- V.90 PC Card Modem with XJACK[24]	10L7393	- **SelectaBase 600**	**12J2467**
- 10/100 EtherJet CardBus with 56K		- PC Card Enabler[17]	83H6741
modem	08L3167	- PC Card Enabler with EtherJet™[17]	05K4820
- IBM 10/100 EtherJet CardBus PC Cd	08L3147	- SelectaDock I	3547001
- UltraslimBay HDD adapter (for 2nd disk)	05K5336	- SelectaDock II	3547002
- SuperDisk LS-120 (UltraslimBay)	20L1929	- **SelectaDock III**[17]	**3547003**
- 2X DVD Drive (UltraslimBay)	05K8890	- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- Zip 100MB UltraslimBay Drive	37L1504	- **24X-10X CD-ROM** (UltraslimBay;	12J2471
- UltraslimBay Battery (600E only)	02K6504	includes external diskette enclosure)	
- ThinkPad 600 Li-Ion Battery	12J2464	- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- External Battery Charger	02K6499	- **64MB SO DIMM 3.3v NP SDRAM**	**20L0241**
		- **128MB SO DIMM 3.3v NP SDRAM**	**01K1150**
- ThinkPad Proven™ solutions[12] (visit			
www.ibm.com/pc/us/thinkpad/proven)			

WINDOWS 98 PRELOAD[16]

- - Microsoft® Windows® 98
- • ThinkPad Utilities
- • Online User's Guide
- • ThinkPad Configuration Program
- • Ergonomics
- • IBM Registration
- • RingCentral Fax
- • Puma IntelliSync 97 (infrared)
- • IBM Global Network Dialer
- • Netscape Navigator web browser
- • ThinkPad on the Net (TCC CD)
- • ConfigSafe
- • Norton AntiVirus (OEM Version)
- • Mediamatics DVD Express
- • IBM Update Connector
- ◇ Lotus SmartSuite Millennium CD-ROM
- ◇ Customization Center CD-ROM
- ◇ Recovery CD-ROM (with boot diskette)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- • std diskette and travel cover
- • std or optional CD-ROM
- • optional DVD drive[19]
- • optional UltraslimBay battery (cold swap only; 600E only)
- • optional LS-120 SuperDisk drive (cold swap only)
- • optional Zip 100MB drive (cold swap)
- • optional HDD adapter; for second disk (cold swap only)
- • optional ThinkPad Proven™ solutions[12]

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	13ms read/14ms write	
9.5 mm	PIO Mode 4 or Ultra DMA/33	
- 4.0GB	13ms read/14ms write	
12.5 mm	PIO Mode 4 or Ultra DMA/33	
- 5.1GB	12ms read/13ms write	
12.5 mm	PIO Mode 4 or Ultra DMA/33	
- 6.4GB	13ms read/14ms write	
12.5 mm	PIO Mode 4 or Ultra DMA/33	

FEATURES

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN™ support[28]
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 300PE or 366MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraslimBay
DVD (removable)	*Std or option:* **DVD-ROM** / bootable / removable from UltraslimBay

	2645-3AU	2645-4AU	2645-8AU	2645-5AU	2645-AAU
Type - model					
Processor	**PII 300PEMHz**	**PII 366MHz**	**PII 366MHz**	**PII 366MHz**	**PII 366MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**Windows NT**	**Windows 98**	**Blank** (no disk)
CD or DVD-ROM	**CD-ROM**	**CD-ROM**	**CD-ROM**	**DVD-ROM**	**Optional**
Disk (removable)	**4.0GB**[4] / 13/14ms	**6.4GB** / 13/14ms			**None**
	PIO4 or Ultra DMA	12.5 mm / PIO Mode 4 or Ultra DMA/33			**N/A**
Avail / withdraw date	Mar 1999 / Dec 99	Mar 99 / Mar 00			Mar 99 / Feb 00

Memory (std / max)	**32MB** / 288MB **64MB** std / 288MB[25] max **32MB** / 288MB
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available /
	for 64MB model, one socket used by 32MB SO-DIMM
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/
	640x480, 800x600, or 1024x768 (up to 16.7 million colors)
	150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port**
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 1X
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis
	Multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full size alp/num keys / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	4.99 lbs (2.26 kg) with travel cover and battery only
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III**[17] / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / Selectable boot
Video (TV) out	*5AU:* Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[22] / V.90 / 14.4Kbps fax / telephony / voice-capable /
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole /
	personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- ThinkPad 600 Li-Ion Battery	12J2464	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- 10/100 EtherJet CardBus with 56K		- 10GB disk, 12ms, Ultra DMA/33	36L9293	
modem	08L3167	- SelectaBase 600	12J2467	
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- PC Card Enabler with EtherJet[17]	05K4820	
		- SelectaDock III[17]	3547003	
		- Ultraslim 56 watt AC Adapter (3 prong)	02K6545	
		- 24X-10X[5] CD-ROM (UltraslimBay;	12J2471	
		includes external diskette enclosure)		
		- 32MB SO DIMM 3.3v NP SDRAM	76H0294	
		- 64MB SO DIMM 3.3v NP SDRAM	20L0241	
		- 128MB SO DIMM 3.3v NP SDRAM	01K1150	
		- UltraslimBay HDD adapter (for 2nd disk)	05K5336	
		- SuperDisk LS-120 (UltraslimBay)	20L1929	
		- 2X[5] DVD Drive (UltraslimBay)	05K8890	
		- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169	
		- Zip 100MB UltraslimBay Drive(570/600)	37L1507	
		- UltraslimBay Battery (600E only)	02K6504	

Color depth

Resolution	LCD TFT	External Monitor 60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	64K
1280x1024	--	256	--	64K	64K

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- RingCentral
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (5AU only)
- IBM Update Connector
- Access ThinkPad
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows 98)
- ◇ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4a
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- Access ThinkPad
- SystemSoft CardWizard
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive[19]
- optional UltraslimBay battery (cold swap only; 600E only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available only as an AAP option on the 600E model AAU; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM ThinkPad® 600E (400MHz) - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 400MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay

Type - model	2645-4BU	2645-5BU	2645-8BU	2645-BAU (AAP)
Processor	**Pentium II 400MHz**	**Pentium II 400MHz**	**Pentium II 400MHz**	**Pentium II 400MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**Windows NT**	**Blank** (no disk)
CD or DVD-ROM	**CD-ROM**	**DVD**	**CD-ROM**	**Optional**
Disk (removable)	**10.0GB**[4] / 12ms seek time / PIO4 or Ultra DMA/33			**None**
Avail / withdrawn date	June 1999 / January 2001			

Memory (std / max)	**64MB** / 288MB[25] **32MB** / 288MB[25]
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available /
	for 64MB model, one socket used by 32MB SO-DIMM
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/
	640x480, 800x600, or 1024x768 (up to 16.7 million colors)
	150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / Accelerated Graphics Port
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis
	Multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Approximate weight[2]	5.04 lbs (2.29 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) /
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 600**[17] / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III**[17] **/** SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot
Video (TV) out	*5BU/BAU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[22] V.90 / 14.4Kbps fax / telephony / voice-capable /
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole /
	personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- ThinkPad 600 Li-Ion Battery	12J2464	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 10/100 EtherJet CardBus with 56K[22]		- 10GB disk, 12ms, Ultra DMA/33	36L9293
modem	08L3167	- SelectaBase 600	12J2467
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- PC Card Enabler with Adv EtherJet[17]	05K4820
		- SelectaDock III[17]	3547003
		- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
		- 24X-10X[5] CD-ROM (UltraslimBay;	12J2471
		includes external diskette enclosure)	
		32MB SO DIMM 3.3v NP SDRAM	76H0294
		- 64MB SO DIMM 3.3v NP SDRAM	20L0241
		- 128MB SO DIMM 3.3v NP SDRAM	01K1150
		- UltraslimBay HDD adapter (for 2nd disk)	05K5336
		- SuperDisk LS-120 (UltraslimBay)	20L1929
		- 2X[5] DVD Drive (UltraslimBay)	05K8890
		- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
		- Zip 100MB UltraslimBay Drive (570/600)	37L1507
		- UltraslimBay Battery (600E only)	02K6504

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT)
  of remaining space

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- RingCentral Fax
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium
- Universal Management Agent
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express
- IBM Update Connector
- Access ThinkPad
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows 98)
- ◇ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
  - Service Pack 4a
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- Access ThinkPad
- SystemSoft CardWizard
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN® support[28]
Universal Management Agent™ support
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available only as an AAP option on the 600E model BAU; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®.[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM ThinkPad® 600X - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® III 450 or 500MHz[1] / 100MHz system bus**
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay

Type - model	2645-3EU	2645-7EU	2645-4EU	2645-9EU	2645-5EU	2645-9EU
Preload (see side)	**Win 98**	**NT 4.0**	**Win 98**	**Win 2000**	**Win 98**	**NT 4.0**
Processor	**Pentium III 450MHz**		**Pentium III 500MHz**		**Pentium III 500MHz**	
CD or DVD-ROM	**CD-ROM**		**CD-ROM**		**6X-2.3X[5] DVD** / RPC II	
Disk (removable)	**6.0GB**[4] / 12ms seek read		**12.0GB** / 12ms seek read		**12.0GB** / 12ms seek (read)	
	PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33	
Avail / withdrawn date	Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		Dec 1999 / Jan 2001	

Memory (std / max)	**64MB** / 576MB
	SDRAM / non-parity / **100MHz** / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph256ZX™** (NM2360) / Accelerated Graphics Port / **4MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 2X
Graphics - features	**Motion compensation** / multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Approximate weight[2]	5.0 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel PIIX4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III**[17] / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot
Video (TV) out	*5EU/9EU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[37] V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- IBM Portable Drive Bay	33L1511	
- 10/100 EtherJet CardBus with 56K[22] modem	08L3167	
- IBM 10/100 EtherJet CardBus PC Card	08L3147	

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

- 6.0GB disk, 12ms, ATA-66	05K9199
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk, 12ms, ATA-66	37L2993
- SelectaBase 600	12J2467
- PC Card Enabler with Adv EtherJet[17]	05K4820
- SelectaDock III[17]	3547003
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- 24X-10X[5] CD-ROM (UltraslimBay)	12J2471
- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHz NP SDRAM	20L0255
- 256MB SO DIMM 100MHz NP SDRAM	33L3069
- UltraslimBay HDD adaptr (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB UltraslimBay Drive (570/600)	37L1507
- UltraslimBay Battery (600E/X only)	02K6504
- ThinkPad 600 Li-Ion Battery	12J2464

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- IBM Registration
- RingCentral Fax
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium[20]
- Universal Manageability Services
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express (5/9EU)
- IBM Update Connector
- Access ThinkPad
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows 98)
- ◇ Recovery CD-ROM (Windows 95)[40]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 5
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Manageability Services
- ConfigSafe
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (5/9EU)
- IBM Update Connector
- SystemSoft CardWizard
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E and 600X only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 99-compliant
CIM and DMI 2.0 compliant
Wired for Management 1.1a
Wake on LAN® support[28]
APM enabled (ACPI ready)
Local and remote asset management via the IBM Universal Manageability Services
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM ThinkPad® 600X (2000) - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® III 500MHz[1] with 100MHz system bus or Pentium® III 650MHz[1, 41] with SpeedStep™ technology and 100MHz system bus**
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay

	2645-8PU	2645-5FU	2645-9FU
Type - model	**2645-8PU**	**2645-5FU**	**2645-9FU**
Preload (see side)	**Windows 2000 Pro**	**Windows 98 SE**	**Windows 2000 Pro**
Processor	**Pentium III 500MHz**	**Pentium III 650MHz**	**Pentium III 650MHz**
CD or DVD-ROM	**CD-ROM**	**6X-2X[5] DVD /** RPC II	**CD-ROM**
Disk (removable)	12.0GB[4] / 12ms seek read / 14ms write / ATA-66 or PIO Mode 4 / S.M.A.R.T.[29]		
Avail / withdrawn date	February 2000 / February 2001		

Memory (std / max)	**64MB** / 576MB
	SDRAM / non-parity / **100MHz** / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph256ZX™** (NM2360) / Accelerated Graphics Port / **AGP 2X 4MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface
Graphics - features	**Motion compensation** / multiple-monitor support[26] for Windows 98 SE only / simultaneous LCD and CRT[26] / DDC2B
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Approximate weight[2]	4.99 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel PIIX4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III**[17] / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot
Video (TV) out	*5FU/9FU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[37] V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

- IBM Portable Drive Bay		33L1511	- 6.0GB disk, 12ms, ATA-66		05K9199
- 10/100 EtherJet CardBus with 56K[22]			- 12.0GB disk, 12ms, ATA-66		05K9200
modem		08L3167	- 18.0GB disk, 12ms, ATA-66		37L2993
- IBM 10/100 EtherJet CardBus PC Card		08L3147	- SelectaBase 600		12J2467
			- PC Card Enabler with Adv EtherJet[17]		05K4820
			- SelectaDock III[17]		3547003

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- 24X-10X[5] CD-ROM (UltraslimBay)	12J2471
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHz NP SDRAM	20L0255
- 256MB SO DIMM 100MHz NP SDRAM	33L3069
- UltraslimBay HDD adaptr (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 6X-2X[5] DVD Drive (UltraslimBay); RPC II	05K9169
- Zip 100MB UltraslimBay Drive (570/600)	37L1507
- UltraslimBay Battery (600E/X only)	02K6504
- ThinkPad 600 Li-Ion Battery	12J2464
- IBM 340MB microdrive	00N8073

Windows 98 model:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Windows 2000 models:
- C: drive is FAT32 of entire drive

Side Column

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- IBM Registration
- RingCentral Fax
- Netscape Communicator
- Lotus® SmartSuite® Millennium
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express (5/9FU)
- IBM Update Connector
- Access ThinkPad
◇ Software Selections CD-ROM
◇ Recovery CD-ROM (Windows 98 SE)
◇ Recovery CD-ROM (Windows 95)[40]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- Lotus SmartSuite Millennium
- ConfigSafe
- IBM Update Connector
- SystemSoft CardWizard
◇ Software Selections CD-ROM
◇ Recovery CD-ROM (Windows 2000)
◇ Recovery CD-ROM (Windows NT)[40]

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E and 600X only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 99-compliant
CIM and DMI 2.0 compliant
Wired for Management 1.1a
Wake on LAN® support[28]
APM enabled (ACPI ready)
Local and remote asset management via the IBM Universal Manageability Services
Remote setup and low-level maintenance via IBM LANClient Control Manager™
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or 2000 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM® ThinkPad®:	✂ 701CS dual scan color					✂ 701C TFT color				
Processor 3.3 volt	**80486DX2**		**IntelDX4**			**80486DX2**		**IntelDX4**		
Processor speed	**50/25 MHz**		**75/25 MHz**			**50/25 MHz**		**75/25**		

ThinkPad 701CS / 701C strengths:
- ⇨ **Full sized, folding TrackWrite keyboard**
- ⇨ **Full sized 10.4" color dual scan or TFT display**
- ⇨ **Subnotebook size and weight (4.5 pounds)**
- ⇨ **Audio, 14.4/14.4 data/fax modem, telephony**
- ⇨ **Infrared communication**
- ⇨ **TrackPoint III and removeable disk**

	701CS	701C
Coprocessor socket	N/A (math coprocessor std in DX2/DX4)	The 701 has a External Bus Connector to attach either standard MultiPort II or (with optional Adapter Kit) Dock II
Memory cache	8 KB in DX2; 16 KB in DX4 / no L2 cache	
Diskette	External 3.5" 1.44 MB / hot-pluggable	
Removable CD-ROM	Not supported	

	701CS DX2		701CS DX4			701C DX2		701C DX4		
Price (retail USD) Type - model **all 2630**	$2,499 US2	2,749 US5	1,499♣ 2SU	1,649♣ 5SU	1,799♣ 7SU	$2,999 UT2	3,299 UT5	1,999♣ 2TU	2,149♣ 5TU	2,299♣ 7TU
Removable disk - size	**360 MB**	540	**360**	540	**720**	360	540	**360**	540	**720**
Hard disk - spd ms	13❏	13❏	13❏	13❏	13❏	13❏	13❏	13❏	13❏	13❏
Available date	Mar 95	Mar 95	Mar95	Mar95	Sep95	Mar95	Mar95	Mar95	Mar95	Sep95

Integrated chipsets provide:
- ① **Data modem function**
  - V.22bis (2400 bps)
  - V.32 (9600 bps)
  - V.32bis (14.4 Kbps)
- ② **Fax modem function**
  - Class 1 fax send/receive (14.4 Kbps)
- ③ **Audio function**
  - 16 bit audio / 44.1 kHz sampling rate
  - Stereo waveform record and playback
  - 18 voice MIDI wave table synthesizer
  - SoundBlaster™ support
  - Text to speech (via Monologue)
- ④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone

	701CS	701C
Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480
Display - colors	**65,536 simultaneous colors**	**65,536 simultaneous colors**
Display - techology	**Dual scan**	**TFT - active matrix**
Display - diagonal size	**10.4 inch** / 20 to 1 contrast ratio	**10.4 inch** / 100 to 1 contrast ratio

Graphics - controller	CT-65545 with 1 MB DRAM
Graphics - vendor	Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**4** / 36 MB	**8** / 40 MB	**4** / 36 MB	**8** / 40 MB
Memory - type	70 ns / non-parity / 3.3 volt			
Mem - sockets empty	1 socket			
Mem-options available	4, 8, 16, 32 MB SO-DIMMs			

The two wings (ends) of the TrackWrite™ keyboard slide into position automatically every time the lid is opened or closed

Fn key functions:
- Configuration Utility
- Battery Status
- Standby/Suspend
- Hibernation
- Speaker off (audio mute)
- Hard disk off
- LCD or CRT or both
- Reverse appearance
- Increase/decrease contrast
- Brighten/dim LCD
- Speaker volume up/down

PREINSTALLED APPLICATIONS
- IBM DOS 6.3
- Windows 3.11
- ❋ DX4 systems include OS/2 Warp 3.0 (dual boot) with selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for the Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network

Keyboard / # of keys	**Full size alp/num / 85 key** (15 Fn key functions)
Keyboard slope	Yes (use MultiPort II stand that flips out)
Mouse/pointing	**TrackPoint III™ on TrackWrite keyboard**
Ext keyboard support	Yes (no cable required)

Dimensions	9.7 x 7.9 x 1.7" (130 cubic inches)	
Color	Black	With keyboard open it expands from 9.7" to 11.5"
Weight (with battery)	4.5 pounds	

Battery - type	Super NiCad or NiMH (DX4 mdls built after 9/95)	
Battery - life	2.5 to 7 hours	**or optional NiMH**
Charge time - on / off	1.5 hrs / battery will not charge if unit is off	

Architecture	AT bus (ISA)
Docking Station	Dock II (requires optional Dock II Adapter Kit)
Port replicator	None (use standard MultiPort II)
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / ECP/EPP parallel 36 pin (IEEE 1284); non-DMA
Other features	APM-aware BIOS / Wallmount AC adapter (30 watts) w/ 2 prongs / Selectable boot

Functions	**Data modem, fax modem, audio, telephony function**
Data/fax modem	**14.4/14.4 data/fax modem function (with RJ11 jack)**
Audio support	**16 bit audio chip on planar (ESS688 and Yamaha OPL3) / FM Synthesis Internal speaker (with Fn key volume control) and internal microphone**
Audio in/out jacks	Input jack / microphone jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared port (on back) / IRDA 1.0 compatible / up to 115.2 Kbps**

Security	Power-on password / locking device keyhole also called MicroSaver™ security connector (Kensington™ lock)
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, (and OS/2 Warp on DX4 models), and all appls listed to right:
Warranty	**3 year** - EasyServ only (optional onsite special bid only)

FEATURES OF 701CS / 701C MODELS

Battery life indicator
Non-disruptive battery exchange
Standby, suspend, hibernation, and RediSafe modes
US EPA Energy Star compliant
Personalized nameplate in molded indention

Configuration Utility is entered by Fn+F1 at any time

MultiPort II (ships standard) is 1.7 x .9 x 10" and has ports for:
- Mouse/Numpad connector (6 pin)
- External keyboard connector (6 pin)
- EPP parallel port (25 pin)
- Serial connector (RS-232D - 9 pin)
- Audio line in (3.5 mm)
- Audio line out (3.5 mm)
- External display connector (15 pin)
- DC input connector

ECP/EPP port (36 lines) connects either the external floppy or a printer. The standard External Diskette Drive Cable (13.2") has a 36-pin and a 26-pin connector. The Standard Printer Cable Adapter (7.1") has a 36-pin connector and a 25-pin connector (so a conventional printer cable is needed)

✂ Withdrawn from marketing eff December 1995

Compatible in all 701 models:
-	Disks: 540 MB disk 13 ms	04H6894
	720 MB disk 13 ms	10H4096
-	Dock II (2 slot / 2 bay)	84G3587
-	Dock II Adapter Kit	04H6196
-	4 MB SO-DIMM 3.3v	92G7259
-	8 MB SO-DIMM 3.3v	92G7261
-	16 MB SO-DIMM 3.3v	92G7263
-	32 MB SO-DIMM 3.3v	92G7281
-	Universal AC Adapter 30 watts	04H8367
-	AC Adapter 30 w, wall, 2 pin	10H4020
-	AC Adapter 35 w, ww, 3 pin	85G6680
-	Super NiCad Battery	10H4019
-	NiMH Battery	25H4862
-	MultiPort II	10H4021
-	External diskette with cable	10H4068
-	EPP Printer Cable & Cable Pack	10H4069

ThinkPad 360, 750, 755 family disks, batteries, memory, and Dock I are NOT compatible in the ThinkPad 701 family

HELPWARE

**3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❏ = Upgradeable; ◯ = Removable; ♣ DX4 models had price decrease effective Feb 9, 1996
✂ = Withdrawn from marketing on or before June 1996

IBM® ThinkPad®:	✂ **710T** pen tablet			✂ **720** monochrome		✂ **720C** color TFT
Processor type Processor speed Memory cache Coprocessor socket Diskette drive	**80486 SLC** **25 MHz** 16 KB internal No Optional 3.5" 1.44 MB			**80486 SLC2** **50/25 MHz** 16 KB internal Yes (for 387 SL) 3.5" 1.44 MB		**80486 SLC2** **50/25 MHz** 16 KB internal Yes (for 387 SL) 3.5" 1.44 MB
Price (retail USD) Type - model Hard drive - size Hard drive - speed Available date Withdrawal date	$ 1,859 2523-09Y Option (TPF) 5, 10, 15 MB March 93 Sept 94	$ 2,749 2523-302 **60 MB** 18.5 ms March 93 Sept 94	$ 2,849 2523-303 **60 MB** 18.5 ms March 93 March 94	$ 2,495 ♣ 9552-307 **120 MB**☑ 17 ms ○ May 93 March 94	$ 2,655 ♣ 9552-308 **160 MB**☑ 15 ms ○ May 93 March 94	$ 4,695 9552-30J **160 MB**☑ 15 ms ○ May 93 March 94
Display - type Display - grey scales Display - techology Display - light source Display - size (diag) Display - contrast ratio 180 degree display tilt	VGA mono 16 grey scales STN Transflective LCD - Backlit 9.5 inch 3 to 1 N/A	Transflective: can turn on backlit in dark areas or turn it off in bright areas		VGA mono ☑ 64 grey scales ☑ STN ☑ LCD - backlit ☑ 9.5 inch ☑ 18 to 1 ☑ Yes		**VGA color** 256 colors 640x480 Thin film transistor Active matrix 10.4 inch 100 to 1 Yes
Memory - std / max Mem - sockets empty SIMM/ICs available	4 / 12 MB 80 ns 1 socket (parity) 2, 4, 8 MB SIMMs			4 / 16 MB 80 ns 2 sockets (parity) 2, 4, 8 MB ICs		4 / 16 MB 80 ns 2 sockets (parity) 2, 4, 8 MB ICs
Keyboard / # of keys Fn key functions Keyboard slope Mouse/pointing Ext keyboard support	External (any PS/2 keyboard N/A (no keyboard) N/A is supported) Electromagnetic pen Yes			Full size alp/num/ 84 None 8 degrees (legs) **TrackPoint II**™ Yes (with opt cable)		Full size alp/num/ 84 None 8 degrees (legs) **TrackPoint II** Yes (with opt cable)
Dimensions Cubic inches Carrying case Color Weight (with battery)	11.6 x 9.6 x 1.4" 156 inches Blk nylon standard Black 5.2 pounds (09Y); 5.5 pounds (302,3)			11.7 x 8.3 x 1.9" 185 inches Many options available Black 6.5 pounds		11.7 x 8.3 x 2.2" 214 inches Many options available Black 7.6 pounds
Battery - type Batt - life (per battery) Charge time - on / off Battery - options	Nickel cadmium 3.3 to 4.1 hrs (09Y); 3.1 to 3.8 (302,3) N/A / 3 hrs (unit off or suspend only) Nickel cadmium half size battery			Nickel hydride 4 to 8 hours 3 hrs / 2 hrs Yes - status indicator		Nickel hydride 2.4 to 4.8 hours 1.5 hrs / 1.4 hrs Yes - status indicator
Architecture External AT/MCA port Comm Crtrdge (1 card) Docking Station Port replicator Modem/serial slot PCMCIA slots Visible LEDs - closed Serial / parallel ports	Local / AT I/O, DMA Yes No No No No 3 Type II (09Y); 1 Type II (302, 303) N/A Yes / Yes	1 Type III PC Card can occupy 2 Type II slots on Model 09Y		Micro Channel® Yes Yes (black) Yes (3550-002) black Yes black No **2 Type I or 2 Type II** Yes **or 1 Type III** Yes / Yes (DMA)		Micro Channel Yes Yes (black) Yes (3550-002) black Yes black No **2 Type I or 2 Type II** Yes **or 1 Type III** Yes / Yes (DMA)
APM-aware BIOS Other features Preinstalled software Warranty	No 09Y: PenDOS, PenPoint on optional solid state files (10, 15 MB). 302: PenDOS 2.0; 303: PenPoint 1 year - EasyServ only			APM-aware BIOS Hrdw security loop IBM DOS 5.02, PRODIGY® **3 year** - carry in or EasyServ (opt onsite)		APM-aware BIOS Hrdw security loop IBM DOS 5.02, PRODIGY **3 year** - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with ThinkPad 360, 750, 755.
The 700/720 memory IS compatible with ThinkPad 360, 750, 755.

FEATURES OF 700/700C and 720/720C		**FEATURES OF ALL PRODUCTS**
3 year warranty **700/720 mono upgradeable to TFT color** **700/700C upgradeable to 486SLC2 50/25** **Upgradeable to 120, 160, 240, 340 MB** **Removable hard disk** **Pressure activated TrackPoint II** Optional battery w/ power status indicators Quick Charger holds 2 batt; discharge button **Coupon book with $4,000 in savings**		Suspend/resume mode; battery life indicator Non-disruptive battery exchange Simultaneous LCD and external CRT US EPA Energy Star compliant **International travelers warranty** **IBM or dealer warranty/service** **30 day money back guarantee** **24 hour / 7 day fax support** **24 hour / 7 day bulletin board support** **24 hour / 7 day telephone support at** **1-800-772-2227**
♣ Price decrease effective October 28, 1993	✂ Withdrawn from marketing	

ThinkPad EasyServ™**:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).
STN = Super twisted nematic;   ☑ = Upgradeable;   ○ = Removable

IBM ThinkPad 730T - withdrawn

IBM® ThinkPad®:	✂ **730T** pen tablet			
Processor type	**80486SX** (3.3 volt SL Enhanced)			
Processor speed	**33 MHz**			
Memory cache	8 KB internal (no L2 cache)			
Coprocessor socket	No			
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730TE)			
Price (retail USD)	$ 2,569	$ 2,879	$ 3,119	$ 3,429
Type - model	2524-801	2524-901	2524-80F	2524-90F
Hard drive - size	Option (required	Option (required	**105 MB PCMCIA**	**105 MB PCMCIA**
Hard drive - speed	via PCMCIA disk)	via PCMCIA disk)	15 ms	15 ms
Preinstalled software	N/A	N/A	IBM DOS 6.3 Windows for Pen Computing	IBM DOS 6.3 Windows for Pen Computing
Avail / withdrawn date	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996
Memory - std / max	4 / 20 MB	8 / 24 MB	4 / 20 MB	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot			
Memory - type	70 ns / non-parity / 5.0 volt			
Memory - options	4, 8, 16 MB ICs			
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)		
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)		
Display - techology	STN Transflective			
Display - light source	LCD - Backlit	Transflective: can turn on backlight in dark areas or turn it off in bright areas		
Display - size (diag)	9.5 inch			
Display - contrast ratio	3 to 1			
Keyboard	External (any IBM keyboard is supported; attach to port replicator)			
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom			
Dimensions	10.6 x 8.3 x 1.4"			
Cubic inches	123 inches			
Carrying case	Blk nylon standard (many options also available)			
Color	Black			
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)			
Battery - type	Nickel hydride (NiMH)	A false battery pack ships		
Battery - quantity	Two batteries ship standard / can use one or two batteries	standard if only want to		
Batt - life (per battery)	1 battery: 2 to 5 hours	use one battery		
	2 battery: 4 to 10 hours			
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)			
Architecture	Local memory bus / ISA			
Docking Station	No			
Port replicator	Yes (ships standard / attach to 200 pin connector)			
	Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector			
Modem/serial slot	No (use PCMCIA)			

PCMCIA 2.01 slots	**3 Type II or 2 Type III** as follows:
	    1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM
	         memory will leave 1 Type II slot remaining)
	    2nd slot: 2 Type II or 1 Type III (105 MB PCMCIA disk in Models 80F/90F is installed here)			

Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)			
Warranty	**3 year** - ThinkPad EasyServ™			

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

– PenDOS® 2.2 with IBM DOS 6.3
    84G9180 - PCMCIA HDD 105 MB PenDOS preloaded
– Pen for OS/2 1.0 with OS/2® 2.11
    84G9190 - PCMCIA HDD 105 MB Pen for OS/2 preloaded
– Windows for Pen Computing® 3.1 with IBM DOS 6.3
    Models 80F/90F are preloaded with Windows for Pen Computing
– PenRight!® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):

| IC DRAM only |

PCMCIA Type III
260 MB disk in this slot
(Model B0F)
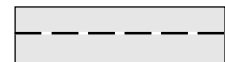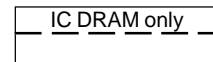
Quick Charger	66G9540	4 MB IC DRAM 70 ns 5v non-parity	92G7236	
Car Battery Adapter	66G9545	8 MB IC DRAM 70 ns 5v non-parity	92G7237	
NiMH Battery (dual)	66G9550	16 MB IC DRAM 70 ns 5v non-parity	92G7424	
AC Adapter 20 watts	84G0480			
PortReplicator	84G0485			
External 3.5" 1.44 MB	48G8263			
diskette drive				
105 MB HDD (PenDOS)	84G9180			
105 MB HDD (PenOS2)	84G9190			
Hand Strap	84G0495			
Soft Case	84G0490			
Battery Case	84G0500			

FEATURES OF THINKPAD 730T

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
**   board, fax, and electronic**
**   support**
IBM warranty/service
30 day money back guarantee

IBM ThinkPad 730TE - withdrawn

IBM® ThinkPad®:	✂ **730TE** pen tablet		The 730TE is the same as the 730T (older models) except:	
Processor	**IntelDX4™ 75/25 MHz**		**730T**	**730TE**
Memory cache	16 KB in DX4 (no L2 cache)		➪ 486SX - 33 MHz	➪ IntelDX4 - 75/25 MHz
Coprocessor socket	N/A; standard in IntelDX4		➪ 105 MB disk preloads	➪ 260 MB disk preloads
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730T)			➪ Improved storage door for pen

Price (retail USD)	$ 2,849	$ 3,499
Type - model	2524-B01	2524-B0F
Part number	39H5976	39H5975
Hard drive - size	Option (required	**260 MB PCMCIA**
Hard drive - speed	via PCMCIA disk)	12 ms / 4500 rpm / 16 MB/sec burst transfer rate / 5.7 MB/sec media transfer rate
Preinstalled software	N/A	IBM DOS 7.0
		Windows for Pen Computing
Avail / withdrawn date	Oct 1995 / July 1997	October 1995 / July 1997

Memory - std / max	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot
Memory - type	70 ns / non-parity / 5.0 volt
Memory - options	4, 8, 16 MB ICs

Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)
Display - techology	STN Transflective	
Display - light source	LCD - Backlit	Transflective: can turn on backlight in dark areas or turn it off in bright areas
Display - size (diag)	9.5 inch / 3 to 1 contrast ratio	
Graphics controller	Western Digital WD90C24A / VL-Bus 2.0 local bus / 1 MB DRAM memory	

Keyboard	External (any IBM keyboard is supported; attach to port replicator)
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom

Dimensions	10.6 x 8.3 x 1.4"
Cubic inches	123 inches
Carrying case	Blk nylon standard (many options also available)
Color	Black
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)

Battery - type	Nickel hydride (NiMH)	A false battery pack ships
Battery - quantity	Two batteries ship standard / can use one or two batteries	standard if only want to
Batt - life (per battery)	1 battery: 1.65 to 5 hours	use one battery
	2 battery: 3.3 to 10 hours	
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)	

Architecture	Local memory bus / ISA
Docking Station	No
Port replicator	Yes (ships standard / attach to 200 pin connector)
	Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector
Modem/serial slot	No (use PCMCIA)
PCMCIA™ 2.1 slots	**3 Type II or 2 Type III** as follows: 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (260 MB PCMCIA disk in Model B0F is installed here)
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)
Security	Power-on password
Warranty	**3 year** - ThinkPad EasyServ™ (Optional Overnight Repair Option)

The ThinkPad 730T requires a bootable operating system with Pen capability.
Supported is:

– PenDOS® 2.2 with IBM DOS 7.0
   39H6014 - PCMCIA HDD 260 MB PenDOS preloaded
– Pen for OS/2 1.03 with OS/2® Warp
   39H6017 - PCMCIA HDD 260 MB Pen for OS/2 preloaded
– Windows for Pen Computing® 1.0 with IBM DOS 7.0/Windows 3.11
   Model B0F is preloaded with Windows for Pen Computing
– PenRight! ® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):

IC DRAM only

PCMCIA Type III
260 MB disk in this slot
(Model B0F)

Quick Charger	66G9540	260 MB HDD PCMCIA Type III (Blank)	06H9077
Car Battery Adapter	66G9545	260 MB HDD PCMCIA Type III (Warp for Pen)	39H6017
NiMH Battery (dual)	66G9550	260 MB HDD PCMCIA Type III (PenDOS)	39H6014
AC Adapter 20 watts	84G0480	4 MB IC DRAM 70 ns 5v non-parity	92G7236
PortReplicator	84G0485	8 MB IC DRAM 70 ns 5v non-parity	92G7237
External 3.5" 1.44 MB	48G8263	16 MB IC DRAM 70 ns 5v non-parity	92G7424
diskette drive			
Hand Strap	84G0495		
Soft Case	84G0490		
Battery Case	84G0500		

FEATURES OF THINKPAD 730TE

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
**24 hour / 7 day telephone, bulletin
   board, fax, and electronic
   support**
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

IBM ThinkPad 750 - withdrawn

IBM® ThinkPad®:	✄ **750** monochrome	✄ **750Cs** passive color	✄ **750C** color TFT	✄ **750P** convertible pen	✄ **Traveling Multimedia** preconfigured system
Processor type	*All:* **80486 SL** with math co	The removed diskette drive can be utilized externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the ① Port Replicator Model I, ② Port Replicator Model II, or ③ Dock I Docking Station.			A preconfigured, multimedia **750C;** Available Sept 93; $ 7,245 ♣
Processor speed	*All:* **33 MHz**				
Memory cache	*All:* 8 KB internal				
Coprocessor socket	*All:* N/A (std in 486SL)				Included with the IBM Traveling Multimedia:
Diskette drive	*All:* 3.5" 2.88 MB ○				

	750		750Cs		750C		750P		
Price (retail USD)	$ 3,199	$ 3,749	$ 2,599 ♣	$ 2,999 ♣	$ 4,699	$ 5,249	$ 2,599	$ 2,999	Hardware:
Type - model	9545-006	9545-008	9545-206	9545-208	9545-306	9545-308	9545-40C	9545-40E	- 750C (all features listed on left)
Hard drive - size	**170 MB**▨	**340 MB**▨	**170 MB**▨	**340 MB**▨	**170 MB**▨	**340 MB**▨	**170 MB**▨	**340 MB**▨	- 340MB removable hard disk
Hard drive - speed	15 ms ○	14 ms ○	15 ms ○	14 ms ○	15 ms ○	14 ms ○	15 ms ○	14 ms ○	- 12 MB memory (4 MB std + 8 MB IC DRAM card)
Avail / withdrawal date	Sept 93 / withd Sep 94		Nov 93 / withd Sept 94		Sept 93 / withd Sep 94		Sept 93 / withd Sept 94		- 14.4 Data/Fax modem (PCMCIA)

	750	750Cs	750C	750P	
Display - type	VGA mono ▨ ▨	**VGA color**	**VGA color**	VGA mono	- Dock I (Docking Station)
Display - grey scales	64 grey scales ▨ ▨	256 colors 640x480	256 colors 640x480	64 grey scales	- CD-ROM/XA - double speed and Kodak Photo CD multisession
Display - techology	STN ▨ ▨	STN - passive matrix	Thin film transistor	STN - **pen enabled**	
Display - light source	LCD - Sidelit ▨ ▨	LCD - Sidelit	**Active matrix**	LCD - Sidelit	- Dock I Carrying Case
Display - size (diag)	9.5 inch ▨ ▨	9.5 inch **Dual scan**	10.4 inch	9.5 inch	
Display - contrast ratio	18 to 1 ▨ ▨	20 to 1	100 to 1	18 to 1	Software:
180 degree display tilt	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)	- Windows 3.1
Memory - std / max	*All:* 4 / 20 MB 70 ns	*Additional video features for all:* 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)			- Asymetrix COMPEL™ (on screen multimedia presentations)
Mem - sockets empty	*All:* 1 socket (parity)				
SIMM/ICs available	*All:* 2, 4, 8, 16 MB ICs				- Asymetrix MediaBlitz! (library of media clips)
Keyboard / # of keys	*All:* Full size alp/num/ 85	Fn key functions to instantly change in any appl:			- LapLink™ V (file transfer via cable or modem)
Keyboard slope	*All:* Yes (legs pop out)	① Fuel guage ④ Speaker volume ⑦ High intensity text			
Mouse/pointing	*All:* **TrackPoint II**	② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode			- Delrina WinFax PRO (fax software)
Ext keyboard support	*All:* Yes (with option cable)	③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode			

	750	750Cs	750C	750P	
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 2.1"	**ALL 750 MODELS**
Cubic inches	165 inches	194 inches	194 inches	204 inches	*Liftable (pop-up)*
Carrying case	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)	*keyboard* **to access**
Color	Black	Black	Black	Black	**diskette drive, disk,**
Weight (with battery)	5.5 pounds	6.2 pounds	6.4 pounds	6.6 pounds	**battery, and memory**
Battery - type	Nickel hydride (smart)	Nickel hydride (smart)	Nickel hydride (smart)	Nickel hydride (smart)	
Batt - life (per battery)	5.3 to 12 hours	3.5 to 8 hours	3.4 to 8 hours	5.1 to 12 hours	
Charge time - on / off	1.5 hrs / 1.5 hrs	2.0 hrs / 1.5 hrs	2.0 hrs / 1.5 hrs	1.5 hrs / 1.5 hrs	

Architecture (ext port)	*All:* AT bus (with external port)	*Diskette drive can be removed* ① *to reduce weight,* ② *to insert cellular modem (CDPD),* ③ *to insert TV Tuner (for on screen TV and VCR playback), or* ④ *to add other third party options.*
Docking Station	*All:* Yes (Dock I and II below)	
Port replicator	*All:* 2 types (below)	
PCMCIA 2.01 slots	*All:* **2 Type I or 2 Type II or 1 Type III**	
Serial / parallel ports	*All:* Yes (one 9 pin) / Enhanced Parallel Port (EPP) with 2 MB/sec transfer speed (non-DMA)	
Other features	*All:* BIOS/Easy Set up/Diagnostics in FLASH EEPROM / APM-aware BIOS / Hibernation mode	
Audio support	*All:* 16 bit audio chip on planar with Mwave audio codec / Internal high fidelity speaker	
Audio in/out jacks	*All:* Input jack supports microphone / Output jack supports headphone or stereo speakers	
Security	*All:* Hardware security loop / Power-on password / Supervisor password (privileged access password) for hardware config changes / Hard disk password (HDP) allows use of disk	

	750	750Cs	750C	750P (Traveling Multimedia)
Preinstalled software	DOS 6.1, PRODIGY® Online info, demo	DOS 6.1, PRODIGY Online info, demo	DOS 6.1, PRODIGY Online info, demo	DOS 6.1, Windows™ 3.1, PenDOS™ 2.2, Windows for Pen, PRODIGY, Online info, demo
Warranty	**3 year** - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite for $40 each year; all mod)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 750. The 700/720 memory IS compatible with 750

Dock I (Docking Station) $685

SCSI-1 controller; two stereo speakers;
One full-size 16 bit AT bus slot; 6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360750/755;
Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719

SCSI-2 Fast controller; two stereo speakers;
Two full-size 16 bit AT bus slots; 17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Can house removable disk from 360/750/755;
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299

2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power

Port Replicator Model II $109
Same as Model I except *no* PCMCIA slots

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750 MONOCHROME

Upgradeable to ① monochrome pen enabled screen (same as 750P), or ② 10.4" TFT color

750Cs DUAL SCAN COLOR

Dual scan passive matrix color screen

750C ACTIVE MATRIX COLOR

Largest 10.4" active matrix color screen

750P CONVERTIBLE PEN

Same display as the 750 monochrome.
Can be used in normal upright position or folded down into a position suitable for writing via the standard untethered stylus.

Cellular Digital Packet Data (CDPD)
Mobile Communications Module
Provides transmission of analog and digital data using a cellular telephone.
Supported on 750, 750Cs, 750C (not 750P).
High speed 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless; available April 1994; $1,999

Many other options available from IBM

FEATURES OF ALL 750 FAMILY

3 year international warranty
16 bit audio chip on planar (Mwave™)
Headphone (out)/microphone (in) audio jacks
Removable and upgradeable hard disks
Removable diskette drive
Pressure activated TrackPoint II
Std intelligent battery with built in processor for accurate monitoring on screen
Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Non-disruptive battery exchange
Standby / suspend / hibernation modes
Hibernation mode saves memory to the hard disk and shuts system off
Selectable boot
US EPA Energy Star compliant
Personalized nameplate in molded indention
Coupon book with $4,000 in savings
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

IBM® ThinkPad®:	✂ **755Cs** dual scan color			✂ **755C** TFT color			✂ **Traveling Multimedia** preconfigured system
Processor type Processor speed Memory cache Coprocessor socket Removable diskette	**80486 DX2** ☐ to DX4 **50/25 MHz** 3.3 volt 8 KB internal (no L2) N/A (std in 486DX2) 3.5" 1.44 MB ○	**IntelDX4** **75/25 MHz** 3.3 volt 16 KB internal (no L2) N/A (std in 486DX4) 3.5" 1.44 MB ○		**80486 DX2** ☐ to DX4 **50/25 MHz** 3.3 volt 8 KB internal (no L2) N/A (std in 486DX2) 3.5" 1.44 MB ○	**IntelDX4** **75/25 MHz** 3.3 volt 16 KB internal (no L2) N/A (std in 486DX4) 3.5" 1.44 MB ○		A preconfigured, multimedia **755C;** Available June 94; withdrawn Dec 95 Part #2337289 $ 6,399 ✎
Price (retail USD) Type - model **all 9545** Removable disk - size Hard disk - speed ms Avail / withdrawn date	$3,399 E0C **170** ☐ 15 ○ Jun 94 / May 95	$3,899 E0E **340** ☐ 14 ○ 	$4,299 E0G **540** ☐ 14 ○ 	$3,899 K0C **170** ☐ 15 ○ Jun 94 / May 95	$4,399 K0E **340** ☐ 14 ○ 	$4,799 K0G **540** ☐ 14 ○ 	Included with the IBM Traveling Multimedia: Hardware:

	$2,799
	F0C
	170 ☐
	15 ○
	Jun 94 / Dec 95
		$3,099
		F0E
		340 ☐
		14 ○
		
			$3,449
			F0G
			540 ☐
			14 ○
			
				$3,399
				L0C
				170 ☐
				15 ○
				Jun 94 / Dec 95
					$3,699
					L0E
					340 ☐
					14 ○
					
						$3,999
						L0G
						540 ☐
						14 ○
						
							- 755C Model L0G
							- DX4 75/25 with all
							  features listed on left
							- 540 MB removable
							  hard disk

Display - type
Display - colors
Display - techology
Display - light source
Display - size (diag)
Display - contrast ratio
	VGA color
	256 colors 640x480 (pallette of 4096 colors)
	STN - passive matrix
	LCD - Sidelit
	9.5 inch **Dual scan**
	20 to 1
				VGA color
				256 colors 640x480 (pallette of 262,144 colors)
				TFT - active matrix
				LCD - Backlit
				10.4 inch
				100 to 1
							- 8 MB memory (4 MB
							  std + 4 MB DIMM on
							  Memory Adapter)
							- 14.4 Data/Fax
							  modem (PCMCIA)
							- Dock I (Docking
							  Station)

Graphics - controller
Graphics - vendor
Graph - arch/data path
	All: WD90C24A or WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 4.3
	All: Western Digital / External SVGA to 1024 x 768 w/ 256 colors
	All: VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT / 180 degree tilt
							- CD-ROM/XA - double
							  speed and Kodak
							  Photo CD
							  multisession

Memory - std / max Mem - sockets empty Mem-options available	*All:* 4 / 36 MB 70 ns *All:* 1 socket (parity) *All:* 2, 4, 8, 16, 32 MB ICs or 4, 16 MB DIMMs that works on optional Memory Module Adapter	*Memory upgraded via* ① *1 open socket for IC memory card for 20 MB max or* ② *new DIMM technology for max of 36 MB with 4 or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.*					- Dock I Carrying Case - Interlink® ProPoint™ Software - same as 755C plus:
Keyboard / # of keys Fn key functions Keyboard slope Mouse/pointing Ext keyboard support	*All:* Full size alp/num/ 85 *All:* 8 (in any appl) *All:* Yes (legs pop out) *All:* **TrackPoint II**™ *All:* Yes (with option cable)	Fn + F2 = Fuel guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F5 = Audio decrease Fn + F6 = Audio increase	Fn + F7 = Ext display/LCD Fn + F8, F9, F10 = (reserved) Fn + F11 = Power mgmt Fn + F12 = Hibernation mode				- Asymetrix®COMPEL™ - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V - Picture Factory™
Dimensions Color Weight (with battery)	*All:* 11.7 x 8.3 x 2.0" (194 cubic inches) *All:* Black 6.1 pounds	*Easy-Setup is entered by holding F1 when turning on.*		6.4 pounds		*Intelligent battery with a processor to allow accurate monitoring of*	- TalkWorks™ - Sound Effects Library - ClickArt™ 2000
Battery - type Batt - life (per battery) Charge time - on / off	Nickel hydride (smart) 4 to 8 hours 2 hrs / 1.5 hrs			Nickel hydride (smart) 3.1 to 8 hours 2.0 hrs / 1.5 hrs		*battery condition and accurate fuel guage.*	
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	*All:* AT bus (ISA) *All:* **Yes** (Dock I and II below) *All:* **Yes** (2 types below) *All:* **2 Type I or 2 Type II or 1 Type III** *All:* Yes (one 9 pin; 16550A) / Enhanced Parallel Port (EPP); non-DMA *All:* APM-aware BIOS / Hibernation mode / Wallmount A/C adapter (40 watts) / Selectable boot	*Diskette drive can be removed* ① *to reduce weight,* ② *to insert cellular modem (CDPD),* ③ *to insert TV Tuner (for on screen TV and VCR playback), or* ④ *to add other third party options.*					**ALL 755 MODELS** *Liftable (pop-up) keyboard* **to access and remove diskette drive, disk, battery, and memory**
Audio support Audio in/out jacks Security	*All:* 16 bit audio chip on planar / Crystal Semiconductor CS4248 / Internal speaker and microphone *All:* Input jack supports microphone / Output jack supports headphone or stereo speakers *All:* Power-on password / Hard disk password / Supervisor password (for hardware config changes) / Hardware security loop / PCMCIA card lock / (Security Base optional)						
Preinstalled software Warranty	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0,④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0 *All:* **3 year** - carry in or EasyServ (opt onsite $40 yr)	*The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I.*					

Dock I (Docking Station) $685
SCSI-1 controller; two stereo speakers;
One full-size 16 bit AT bus slot; 6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360/750/755;
Additional ports: SCSI, audio, speaker, video in,
diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719
SCSI-2 Fast controller; two stereo speakers;
Two full-size 16 bit AT bus slots; 17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299
2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the
cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA,
parallel port, serial, diskette port, DC power

Port Replicator Model II $109
Same as Model I except *no* PCMCIA slots

The ThinkPad 755 family supports all of the
options of the ThinkPad 750 family.

Compatible in 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- Batteries (see below)
- Dock I and Dock II - Diskette drive
- Port Replicator I - AC Adapter
- Port Replicator II - Quick Charger
- CDPD Mobile Module (not pen models)

ThinkPad IC memory for 700, 720, 750, and
755 are all compatible.

The 700 and 720 family hard disks, batteries,
and docking station are NOT compatible with
750 or 755 family.

Battery compatibility:	360	750	755
84G2392 360 NiMH battery	Y	N	N
66G2846 750 NiMH battery	Y	Y	Y

Y = battery supported; N = not supported

Winstone 94 for 755C DX4 = 37.8

Cellular Digital Packet Data (CDPD)
Mobile Communications Module $1,999
Provides transmission of analog and digital
data using a cellular telephone.
Supported on all 360/750/755 (except 750P).
14.4 bps data/fax modem, AMPS cellular, and
CDPD transceiver; wire or wireless.

FEATURES OF ALL 750 and 755 FAMILY

Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Battery life indicator
Non-disruptive battery exchange
Standby / suspend / hibernation modes
EasyPlaying (PC Card Director™) preinstalled
and included on Utility Diskette (755 only)
US EPA Energy Star compliant
Personalized nameplate in molded indention
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at
any location, IBM repairs and mails back (no shipping charges, most shipping is overnight,
3 business days average turnaround). Overnight repair option in US available for $99.
☐ = Upgradeable   ○ = Removable   ✎ Price decrease effective May 11, 1995

IBM® ThinkPad®:	✂ **755CSE** dual scan color			✂ **755CE** TFT color		
Processor type	**IntelDX4ä** / no L2 cache					
Processor speed	**100/33 MHz** / 3.3 volt					
Processor / L2 upgrade	Pentium 75/50 MHz which includes L2 cache of 256 KB / write-through / direct mapped / 12 ns / soldered					
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay					
Removable CD-ROM	Not supported (Diskette bay is called UltraBayä)					

Price (retail USD)	$ 3,499 ⤵	$ 3,849 ⤵	$ 4,299 ⤵	$ 4,299 ⤵	$ 4,649 ⤵	$ 5,099 ⤵
Type - model	9545-6BC	9545-6BD	9545-6BE	9545-7BC	9545-7BD	9545-7BE
Removable disk - size	**340 MB** ▣	**540 MB** ▣	**810 MB**	**340 MB** ▣	**540 MB** ▣	**810 MB**
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Nov 1994	Nov 1994	Nov 1994	Oct 1994	Oct 1994	Oct 1994

Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors	65,536 simultaneous colors
Display - techology	**Dual scan**	**Black Matrix TFT - active matrix**
Display - diagonal size	**10.4 inch** / 20 to 1 contrast ratio	**10.4 inch** / 100 to 1 contrast ratio

Graphics - controller	WD90C24A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	8 MB / 40 MB 70 ns / **parity** / 5 volt	Memory upgraded via
Mem - sockets empty	1 socket	① 1 open socket for IC mem-
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	ory card for 20 MB max or ② new DIMM technology for
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	max of 40 MB with 4, 8, or
Keyboard slope	Yes (legs pop out)	16 MB JEDEC 72 pin SO
Mouse/pointing	**TrackPoint III**™	DIMMs on optional Memory
Ext keyboard support	Yes (with option cable)	Module Adapter.

Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)	**ALL 755CSE / CE MODELS**
Color	Black	
Weight (with battery)	6.4 pounds	*Liftable (pop-up) keyboard* to
Battery - type	Nickel hydride (NiMH) / intelligent	**access and remove diskette drive,**
Battery - life	3.3 to 10 hours	**disk, battery, and memory**
Charge time - on / off	1.7 hrs / 1.2 hrs	

Architecture	AT bus (ISA)	Intelligent battery with a processor to
Docking Station	Dock I and II	allow accurate monitoring of battery
Port replicator	Port Replicator I and II	condition and accurate fuel guage.
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**	
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and ECP)	
Other features	APM-aware BIOS / Wallmount A/C adapter (40 watts) / Selectable boot	

DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Internal speaker (with dial volume control) and internal microphone
Audio in/out jacks	Input jack / output jack supports
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**

Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right:
Warranty	**3 year** - carry in or EasyServ (optional onsite $40 yr)

ThinkPad 755CSE / CE strengths:

- ➪ **DSP with audio, data/fax modem, telephony**
- ➪ **Infrared communication**
- ➪ **Color: 10.4 dual scan or 10.4 Black Matrix TFT**
- ➪ **Removable disk and diskette**
- ➪ **Liftable keyboard and TrackPoint III**
- ➪ **Upgrade to Pentium with L2 cache**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis (2400 bps)
  - V.32 (9600 bps)
  - V.32bis (14.4 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound™ support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support
  - Text to speech (via Monologue)
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
➪ **Software upgradeable** (28.8 and DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 6.3
- Windows™ 3.11
- OS/2 Warp 3.0 (dual boot) w/ BonusPak
  - CompuServe Info Mgr™, IBM Works
  - Internet Connection, Person to Person
  - HyperACCESS Lite™, Video IN
  - FaxWorks™, MM Viewer™
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo (except 340 MB mod)
- Online Users Guide
- ThinkPad features
1. Lotus® cc:Mail™, e-mail for Advantis® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSessionä Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Mwave Sampler (CD)

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed (from UltraBay™)
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert PCMCIA Cartridge (Type I, II, or III)
⑤ to insert 2.88 MB diskette
⑥ to add other third party options

Options for 755CSE / CE:

- NiMH Battery Pack II   85G1513
- 760 NiMH Battery (black)   41H9720
- TV Tuner (CE only)   66G3689
- FDD External Attachment Kit   66G3618
- Memory Module Adapter   84G2151
- 4 MB SO DIMM parity   92G7253
- 8 MB SO DIMM parity   92G7255
- 16 MB SO DIMM parity   92G7257

Compatible in all ThinkPad 360 family, 750 family, 755 family:
- Disks: 170 MB IDE   66G2847/9
            250 MB IDE   84G2391
            340 MB IDE   66G2849
            540 MB IDE   84G2150
            810 MB IDE   84G8250
- Dock I   (1 slot / 1 bay)   3545001
- Dock II   (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA)   66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108

Options for 755CSE / CE:

- PCMCIA Cartridge   84G1301
- **Pentium/L2 upgrade**   **85G8609**

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CSE / CE MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
SelectaSystem™ capability to select operating system choice
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

✂ Withdrawn from marketing effective December 1995

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
▣ = Upgradeable   ○ = Removable   ⤵ Price decrease effective June 20, 1995

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(755E) Compiled by Roger Dodson, IBM. December 1995

IBM® ThinkPad®:	✂ **755CX**		✂ **755CX**			Same as ThinkPad 755CE except includes:
	No DSP - 640 x 480		DSP - 800 x 600			⇨ **Pentium 75/50 MHz**
Processor type	**Pentium® 75/50 MHz**					⇨ **256 KB L2 cache**
Coprocessor socket	N/A (standard in Pentium)					⇨ **SVGA 800 x 600 LCD (on some models)**
L2 cache	256 KB / write-through / direct mapped / 12 ns / soldered					⇨ **Non-parity memory**
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette					⇨ **Lithium ion battery (on two models)**
	Supports PCMCIA Cartridge or CDPD in diskette bay					⇨ **DOS 7.0** (instead of DOS 6.3) **and Mind Path Pro**
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)					

						PREINSTALLED APPLICATIONS
Price (retail USD)	$ 3,749 ↘	$ 4,149 ↘	$ 4,849	$ 5,249	$ 5,699	- IBM DOS 7.0 *SelectaSystem™*
Type - model	9545-SBJ	9545-SBK	9545-HBD	9545-HBE	9545-HBL	- Windows 3.11
Part number	84G6381	85G1669	85G8555	85G8524	85G7518	- OS/2 Warp 3.0 (dual boot) w/ selected
Removable disk - size	**540 MB ❑** ○	**810 MB ❑** ○	**540 MB ❑**	**810 MB ❑**	**1.2 GB** ○	BonusPak
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	12 ms	- IBM PC Card Director à for PCMCIA
Avail / withdrawn date	Jun 95 / Jun 96	Jun 95 / Jun 96	May 1995	May 1995	Sept 95 / Jun 96	- IBM ThinkPad Demo
Display - type	**VGA color / 640 x 480**		**SVGA color / 800 x 600**			- Online Users Guide
Display - colors	**65,536 simultaneous colors**					- ThinkPad features; Diskette Factory
Display - techology	**Black Matrix TFT - active matrix**					1. Lotus® cc:Mail™, e-mail for Global®
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio		**10.4 inch** / 110 to 1 contrast ratio			network
Graphics - controller	WD90C24A (Rev C) with 1 MB DRAM					2. Lotus Organizer™ 1.12
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)					3. Lotus ScreenCam™ 1.0
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					4. Official Airline Guide® Flight Disk® 1.0
Memory - std / max	8 MB / 40 MB 70 ns / non-parity / 5 volt		Memory upgraded via			5. Triton CoSession™ Host
Mem - sockets empty	1 socket (parity memory supported but w/o parity)		① 1 open socket for IC mem-			6. PRODIGY®; 7. America Online®
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8,16 MB DIMMs that		ory card for 40 MB max or			8. SofNet FaxWorks™ Voice® 3.0
	work on optional Memory Module Adapter		② new DIMM technology for			9. Video For Windows™ 1.1 Runtime
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		max of 40 MB with 4, 8, or			10. Monologue (text to speech)
Keyboard slope	Yes (legs pop out)		16 MB JEDEC 72 pin SO			11. Puma TranXit™ (infrared function)
Mouse/pointing	**TrackPoint III™**		DIMMs on optional Memory			12. Taxi™
Ext keyboard support	Yes (with option cable)		Module Adapter.			13. Second Nature Screen Saver
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)					14. Farallon® Replica™
Weight (with battery)	6.1 pounds					15. AlphaNet™ FollowFax™
Battery - type	**NiMH /** intelligent		**Lithium ion /** intelligent			16. SEDONA™ REPRINT™
Battery - life	2.6 to 8 hours Supports optional		3 to 9 hours Supports optional			17. COMPEL™ Personal Edition
Charge time - on / off	1.7 hrs / 1.2 hrs Li-Ion battery		2-2.5 hrs / 1.5-2 hrs NiMH battery			18. Audiofile® TalkWorks™
Architecture	AT bus (ISA)		Intelligent battery with a processor to			19. Reuters℠ Money® Network
Docking Station	Dock I and II		allow accurate monitoring of battery			20. Mind Path™ Presentation F/X Pro
Port replicator	Port Replicator I and II		condition and accurate fuel guage.			
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III					
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot					
Video function	None		None			
DSP function	None (but can order DSP upgrade)		**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**			
Data/fax modem	None (but can order DSP upgrade)		**Data/fax modem function via DSP**			
Audio support	None (but can order DSP upgrade)		**16 bit audio chip on planar with Mwave DSP**			
			Internal speaker (with dial volume control) and internal microphone			
Audio in/out jacks	None (but can order DSP upgrade)		Input jack supports microphone / Output jack supports headphone/speakers			
Telephone	None (but can order DSP upgrade)		Telephone (w/ opt headset) / answering machine / full duplex speakerphone			
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 115 kbs**					
Security	Power-on password / Hard disk password / Supervisor password / Hardware					ThinkPad 755CX supported batteries:
	security loop / Keyboard lock / locking device keyhole (Kensington™ lock) /					- NiMH Battery Pack II 85G1513
	PCMCIA card lock					- Lithium Ion 85G8561
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:					- Li-Ion Battery Pack II 29H9329
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in					- Travel Quick Charger 85G1522
						(for NiMH or Li-Ion)

Upgradeable or Integrated Mwave™ DSP provides:	Compatible in all ThinkPad 360 family, 750 family, 755 family:		
① **Data modem function**	- Disks:	170 MB IDE	66G2847
- V.22bis (2400 bps)		250 MB IDE	84G2391
- V.32 (9600 bps)		340 MB IDE	66G2849
- V.32bis (14.4 Kbps)		540 MB IDE	84G2150
② **Fax modem function**		810 MB IDE	84G8250
- G3 fax send/receive (14.4 Kbps)		1.2 GB IDE	85G8562
③ **Audio function**	- Dock I	(1 slot / 1 bay)	3545001
- Stereo waveform record and playback	- Dock II	(2 slot / 2 bay)	3546001
- Qsound™ support (3-D effect)	- Port Replicator I (w/ PCMCIA)		66G3510
- 32 voice MIDI wave table synthesizer	- Port Replicator II		66G3520
- SoundBlaster™ support	- 1.44 MB diskette		std in newer
- Text to speech (via Monologue)	- 2.88 MB diskette		66G0108
④ **Telephone function**	Options for 755CX:		
- Full telephone (can use opt headset)			
- Telephone answering machine	- PCMCIA Cartridge		84G1301
- Full duplex speakerphone	- FDD External Attachment Kit		66G3618
⇨ **Software upgradeable** (to 28.8 and DSVD)	- CDPD Communications Module		71G2560
	- Mwave DSP Upgrade		2420801
Easy-Setup is entered by holding F1 when turning on.	ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible		

FEATURES OF 755CX MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
     board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ○ = Removable ↘ Price decrease effective November 7, 1995
✂ = Withdrawn from marketing effective June 1996

IBM® ThinkPad®:	✂ **755CV** Projector LCD - DX4	✂ **755CV** Projector LCD - Pentium	

Processor type
L2 cache
Processor / L2 upgrade
	IntelDX4™ 100/33 MHz
	None
	to Pentium 75/50 MHz which
	  includes 256 KB L2 cache
		Pentium® 75/50 MHz
		256 KB write-through / 12ns
		  direct mapped /soldered
		  64 bit to L2 / 32 bit to mem	

Removable diskette	Internal 3.5" 1.44 MB m / supports internal 2.88 MB diskette		
Removable CD-ROM	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay Not supported (Diskette bay is called UltraBay™)		

| Price
Type-model / part
Removable disk - size
Removable disk - spd
Avail / withdrawn date | 9545-8BJ
540 MB ❑
14 ms ◯
May 95 / Jun 96 | 9545-EBK /9545EBK
810 MB ❑
14 ms ◯
Sept 95 / Oct 96 | 9545-EBL /9545EBL
1.2 GB ❑
12 ms ◯
Sept 95 / Oct 96 |

| Display - type
Display - colors
Display - techology
Display - diagonal size
Display - projector | **VGA color** / 640 x 480
65,536 simultaneous colors
TFT - active matrix
10.4 inch / 100 to 1 contrast ratio
Overhead projector LCD by removing back (includes Stand and Strap) | | |

| Graphics - controller
Graphics - vendor
Graph - arch/data path | WD90C24A2 with 1 MB DRAM
Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt | | |

| Memory - std / max
Mem - sockets empty
Mem-options available | 8 MB / 40 MB 70 ns / parity
1 socket / 5 volt
2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that
  work on optional Memory Module Adapter | non-parity | Memory upgraded via
① 1 open socket for IC mem-
ory card for 40 MB max or
② new DIMM technology for
max of 40 MB with 4, 8, or
16 MB JEDEC 72 pin SO
DIMMs on optional Memory
Module Adapter. |

| Keyboard / # of keys
Keyboard slope
Mouse/pointing
Ext keyboard support | Full size alp/num / 85 (8 Fn key functions)
Yes (legs pop out)
TrackPoint III™
Yes (with option cable) | Includes Mind Path™
Remote Control
IR55 F/X | |

| Dimensions
Color
Weight (with battery) | 11.7 x 8.3 x 1.96" (190 cubic inches)
Black
6.6 pounds | *Liftable (pop-up) keyboard* to
**access and remove diskette drive,
disk, battery, and memory** | |

| Battery - type
Battery - life
Charge time - on / off | Nickel hydride (NiMH) / intelligent
3.3 to 10 hours
1.7 hrs / 1.2 hrs   **all support optional Lithium Ion** (see below) | |2.6 to 8 hours | |

| Architecture
Docking Station
Port replicator
PCMCIA 2.1 slots
Serial / parallel ports
Other features | AT bus (ISA)
Dock I and II
Port Replicator I and II
2 Type I or 2 Type II or 1 Type III
One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot | Intelligent battery with a processor to
allow accurate monitoring of battery
condition and accurate fuel guage. | |

| DSP function
Data/fax modem
Audio support

Audio in/out jacks
Telephone
Infrared ports | **Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem function via DSP
16 bit audio chip on planar with Mwave DSP
Internal speaker (with dial volume control) and internal microphone
Input jack / output jack
Telephone (w/ opt headset) / answering machine / full duplex speakerphone
Infrared ports (front and back) / IRDA compatible / up to 115 kbs | | |

| Security | Power-on password / Hard disk password / Supervisor password / Hardware
security loop / Keyboard lock / locking device keyhole (Kensington™
MicroSaver™ cable lock) / PCMCIA card lock | | |

| Preinstalled software
Warranty | IBM DOS 7.0, Windows™ 3.11,OS/2 Warp Ver 3, and all appls listed to right:
3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in | | |

Same as ThinkPad 755CE except includes:

➭ **Overhead projector LCD**
➭ **Supports optional lithium ion battery**
➭ **Mind Pathä Remote Control IR55 F/X and software**

Integrated Mwave™ DSP provides:

① **Data modem function**
   - V.22bis (2400 bps)
   - V.32 (9600 bps)
   - V.32bis (14.4 Kbps)
② **Fax modem function**
   - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
   - Stereo waveform record and playback
   - Qsound™ support (3-D effect)
   - 32 voice MIDI wave table synthesizer
   - SoundBlaster™ support
   - Text to speech (via Monologue)
④ **Telephone function**
   - Full telephone (can use opt headset)
   - Telephone answering machine
   - Full duplex speakerphone
➭ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

-   IBM DOS 7.0   *SelectaSystem™*
-   Windows 3.11
-   OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
-   IBM PC Card Director™ for PCMCIA
-   IBM ThinkPad Demo
-   Online Users Guide
-   ThinkPad Features Program
-   Diskette Factory
1.   Lotus® cc:Mail™, e-mail for Global® network
2.   Lotus Organizer™ 1.12
3.   Lotus ScreenCam™ 1.0
4.   Triton CoSession™ Host
5.   PRODIGY®; 6. America Online®
7.   SofNet FaxWorks™ Voice™ 3.0
8.   Video For Windows™ 1.1 Runtime
9.   Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Asymetrix 3D F/X
18. Mind Path™ Presentation F/X Pro

Ships standard w/ **Mind Path™ Remote Control**	Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Wireless, hand held remote control
- Uses infrared to communicate up to 45 feet
  away
- Includes 5 buttons for instant effects
- Permits full control of mouse
 	
Includes **Mind Path Presentation F/X software**
 	
- Allows 20 real-time special effects
- Includes zoom, telestrator, spotlight,
  magnify, and others
- Works with all Windows applications
 	
Easy-Setup by holding F1 when turning on
	- Disks: 170 MB IDE 66G2847/9
	          250 MB IDE 84G2391
	          340 MB IDE 66G2849
	          540 MB IDE 84G2150
	          810 MB IDE 84G8250
	          1.2 GB IDE 85G8562
	- Dock I (1 slot / 1 bay) 3545001
	- Dock II (2 slot / 2 bay) 3546001
	- Port Replicator I (w/ PCMCIA) 66G3510
	- Port Replicator II 66G3520
	- 1.44 MB diskette std in newer
	- 2.88 MB diskette 66G0108

ThinkPad 755CV supported batteries: - NiMH Battery Pack II 85G1513 - Lithium Ion 85G8561 - Li-Ion Battery Pack II (Pentium only) 29H9329 ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.	Options for 755CV: - PCMCIA Cartridge 84G1301 - TV Tuner 66G3689 - FDD External Attachment Kit 66G3618 - **Pentium/L2 upgrade** (DX4 mod) **85G8609** - Cooling Fan Kit (for overhead) 29H8000

FEATURES OF 755CV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
**24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http:\\www.pc.ibm.com) support**
IBM or dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at
any location, IBM repairs and mails back (no shipping charges, most shipping is overnight,
3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ◯ = Removable; ✂ = Withdrawn from marketing

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(755CV) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 755CD - withdrawn

IBM® ThinkPad®:	✂ **755CD**	✂ **755CD**
	TFT color - DX4	TFT color - Pentium
Processor type	**IntelDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**
L2 cache	None	256 KB write-through / 12 ns
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay	
Removable CD-ROM	**5.25" CD-ROM ○ / double speed / multi-session / XA / front loaded / IDE**	

ThinkPad 755CD strengths over 755CE / CSE:

⇨ **Mobile multimedia - exceeds MPC2 standard**
⇨ **Removable, double speed, 5.25" CD-ROM**
⇨ **Video card (acceleration, composite in/out)**
⇨ **Joystick/MIDI port**
⇨ **Stereo speakers**

Price				
Type - model	9545-9BD	9545-9BE	9545-FBK	9545-FBL
Removable disk - size	**540 MB** / 14 ms	**810 MB** / 14 ms	**810 MB** / 14 ms	**1.2 GB** / 12 ms
Avail / withdrawn date	Oct 1994 / Jun 96	Oct 94 / Jun 96	Sept 95 / Jun 96	Sept 95 / Jun 96

Display - type	**VGA color** / 640 x 480 **/ 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio
Graphics - controller	WD90C24A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	8 MB / 40 MB 70 ns / parity	non-parity
Mem - sockets empty	1 socket / 5 volt	
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint III™**
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.2" (214 cubic inches)
Color	Black
Weight(w/batt/CD-ROM)	7.3 pounds

Battery - type	Nickel hydride (NiMH) / intelligent	Nickel hydride (NiMH) / intelligent
Battery - life	3 to 9 hours	2.5 to 8 hours **Supports**
Charge time - on / off	1.7 hrs / 1.2 hrs	1.7 hrs / 1.2 hrs **optional Li-Ion**

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional); non-DMA
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot

Video function (below)	**Daughtercard with video acceleration, composite in/out, game port**
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers .5 watts (with dial volume control) / int microphone
Audio in/out jacks	Input jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in

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The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory

Integrated Mwave™ DSP provides:
① **Data modem function**
 - V.22bis, V.32, V.32bis (14.4 Kbps)
② **Fax modem function**
 - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
 - Stereo waveform record and playback
 - Qsound support (3-D effect)
 - 32 voice MIDI wave table synthesizer
 - SoundBlaster™ support;Text to speech
④ **Telephone function**
 - Full telephone (can use opt headset)
 - Telephone answering machine
 - Full duplex speakerphone
⇨ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

 - IBM DOS 6.3 (DOS 7.0 on Pentium mod)
 - Windows 3.11   (dual boot)
 - OS/2 Warp 3.0 w/ selected BonusPak
 - IBM PC Card Director™ for PCMCIA
 - IBM ThinkPad Demo
 - Online Users Guide
 - ThinkPad Features
1. Lotus® cc:Mail™, e-mail for Advantis® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital video Producer™
18. Mind Path™ Presentation F/X Pro
19. CD-ROM Catalog/Sampler

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CD MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http:\\www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Enhanced Video Card in 755CD provides:

 - **Acceleration** of 'Video for Windows'™ motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
 - **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
 - **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
 - **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
 - Includes a video in and video out port (includes two video in/out cables)
 - Use software called Digital Video Producer™

Compatible in all ThinkPad 360 family, 750 family, 755 family:
 - Disks: 170 MB IDE   66G2847/9
             250 MB IDE   84G2391
             340 MB IDE   66G2849
             540 MB IDE   84G2150
             810 MB IDE   84G8250
             1.2 GB IDE   85G8562
 - Dock I   (1 slot / 1 bay)   3545001
 - Dock II   (2 slot / 2 bay)   3546001
 - Port Replicator I (w/ PCMCIA) 66G3510
 - Port Replicator II   66G3520
 - 1.44 MB diskette   std in newer
 - 2.88 MB diskette   66G0108

Options for 755CD:
 - PCMCIA Cartridge   84G1301
 - NiMH Battery Pack II   85G1513
 - Lithium Ion Battery (Pentium only) 85G8561
 - Li-Ion Batt Pack II (Pentium only) 29H9329
 - CDPD Mobile Module   71G2560
 - FDD External Attachment Kit   66G3618
 - **Pentium/L2 upgrade** (DX4 mod) **29H8755**

IBM ThinkPad 755CDV - withdrawn

IBM® ThinkPad®:	✂ **755CDV** TFT color - projector LCD - DX4	✂ **755CDV** TFT color - projector LCD - Pentium

Same features as ThinkPad 755CD except includes:

- ➪ **Overhead projector LCD**
- ➪ **Supports optional lithium ion battery**
- ➪ **Mind Path™ Remote Control IR55 F/X**

Processor type	**InteIDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**
L2 cache	None	256 KB write-through / 12ns
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay	
Removable CD-ROM	**5.25" CD-ROM ○ / double speed / multi-session and XA / front loaded**	

Price

Type - model / part	9545-ABJ	9545-ABK	9545--GBK	9545-GBL
Removable disk - size	**540 MB** / 14 ms	**810 MB** / 14	**810 MB** / 14 ms	**1.2 GB** / 12ms
Avail / withdrawn date	June 95 / Jun 96	Jun95 / Jun96	Sept 95 / Oct 96	Sept 95 / Oct 96

Display - type	**VGA color** / 640 x 480 / **65,536 simultaneous colors**
Display - techology	**TFT - active matrix**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio
Display - projector	**Overhead projector LCD by removing back (includes Stand and Strap)**
Graphics - controller	WD90C24A2 Rev D with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	8 MB / 40 MB 70 ns / parity	non-parity
Mem - sockets empty	1 socket / 5 volt	
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	Memory upgraded via ① 1 open socket for IC mem- ory card for 40 MB max or

Memory upgraded via ② new DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	Yes (legs pop out)	**Includes Mind**
Mouse/pointing	**TrackPoint III™**	**Path Remote**
Ext keyboard support	Yes (with option cable)	**Control IR55 F/X**
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)	
Color	Black	
Weight (with battery)	7.45 pounds	

Battery - type	Nickel hydride (NiMH) / smart		Nickel hydride (NiMH) / smart
Battery - life	3 to 9 hours	Supports opt	2.5 to 8 hours
Charge time - on / off	1.7 hrs / 1.2 hrs	Lithium ion	1.7 hrs / 1.2 hrs

(Supports opt Lithium ion)

Architecture	AT bus (ISA)	Easy-Setup is entered by holding F1
Docking Station	Dock I and II	when turning on.
Port replicator	Port Replicator I and II	
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**	
Serial / parallel ports	One 9 pin; 16550A / One (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot	

Video function (below)	**Daughtercard with video acceleration, composite in/out, game port**
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal stereo speakers .5w (w/ dial volume control) and int microphone**
Audio in/out jacks	Input jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ Microsaver cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support; Text to speech

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 7.0   *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for Global® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital Video Producer™
18. Mind Path™ Presentation F/X Pro
19. Asymetrix 3D F/X
20. CD-ROM Catalog/Sampler

The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory
Exceeds MPC2 standard

Enhanced Video Card in 755CDV provides:

- **Acceleration** of 'Video for Windows'ä motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
- **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
- Includes a video in and video out port (includes two video in/out cables)
- Use software called Digital Video Producerä

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:
170 MB IDE	66G2847/9
250 MB IDE	84G2391
340 MB IDE	66G2849
540 MB IDE	84G2150
810 MB IDE	84G8250
1.2 GB IDE	85G8562
- Dock I   (1 slot / 1 bay)   3545001
- Dock II   (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 2.88 MB diskette   66G0108

Options for 755CDV:

- NiMH Battery Pack II   85G1513
- Lithium Ion battery   85G8561
- Li-Ion Batt Pack II (Pentium only) 29H9329
- CDPD Mobile Module   71G2560
- PCMCIA Cartridge   84G1301
- **Pentium/L2 upgrade** (DX4 mod) **29H8755**
- Cooling Fan Kit (for overhead)   29H8000

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.

FEATURES OF 755CDV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®:	✂ **760L**
	10.4" TFT color
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory
Processor speed	**90/60 MHz**
Processor upgrade	to Pentium 120/60 MHz
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	Internal 3.5" 1.44 MB ○ / no rear connector for diskette drive
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM

Price			Pallette of 24 systems
Type - model	9547-U01	9547-U0A	9547-U0R
Preload (see side)	SelectaSys	Windows 95	Blank
Part number	9547U01	9547U0A	9547U0R
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96
Remv disk - size / ms	**810 MB** / 13 ms / EIDE○		

Display - diagonal size	**10.4 inch**
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD/CRT / 180 degree tilt

Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery*
Keyboard slope	**Automted tilt up keyboard** (5.5 degrees)	
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**	
Ext keyboard support	Yes (with option cable)	

Dimensions (cubic in)	11.7 x 8.3 x 1.74" (169)
Weight (with battery)	6.51 pounds
Battery - type	NiMH / intelligent / *Optional Lithium Ion*
Battery - life (1 batt)	3 hours
Battery - life (2 batt)	6 hours
Charge time - on / off	1.7 hrs / 1.2 hrs

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion)
	VL-Bus 2.0 / 32 bit / 33 MHz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot

Motion video accel	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Telephone	**None**

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

ThinkPad 760L strengths:

- ➪ **Automated tilt up keyboard / palm rest space**
- ➪ **UltraBay: 2nd disk, 2nd battery, diskette**
- ➪ **Two high speed infrared ports**
- ➪ **Integrated audio / speakers / microphone**
- ➪ **16.7 million simultaneous color LCD**

Differences between 760L and 760LD:

760L	**760LD**
No internal CD-ROM	Removable CD-ROM
1.74" height	1.96" height
6.5 lbs / 169 cu in	7.11 lbs / 190 cu in
Supports 12 mm disks	Supports 1.2 GB disks
2.16 GB max capacity	2.4 GB max capacity
No ext FDD port	Ext. FDD port on back
Price	Price

SELECTA SYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows
9. NetFinity for Windows 95

The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Easy-Setup is entered by holding F1 when turning on.

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760L is 2.16 GB with two 1.08 GB disks.

Compatible in ThinkPad 760 family:
- Disks: (360/750/755 IDE disks not supported)
  - 720 MB HDD II EIDE   12.5 mm 29H9383
  - 810 MB HDD II EIDE   12.5 mm 29H9313
  - 1.08 GB HDD II EIDE   12.5 mm 29H9319
  - 1.2 GB HDD II (LD/CD only) 17 mm 29H9325
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge   84G1301
- **760 NiMH Battery (black)**   **41H9720**
- **Li-Ion Battery Pack II (gray)** **29H9329**
- Travel Quick Charger   85G1522
- FDD External Attachment Kit 66G3618
- **Pentium 120/60 MHz upgrade** **29H9340**
- Car Battery Adapter   49G2167
- ThinkPad AC Adapter (50 watts) 66G3541
- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
- ThinkPad headset   85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760L) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760LD - withdrawn

IBM® ThinkPad®:	✄ **760LD**
	10.4" TFT color - CD-ROM
Processor type	**Pentium® 90/60 MHz** (P54LM) / 64 bit to L2 cache / 32 bit to memory
Processor upgrade	to Pentium 120/60 MHz
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally to FDD attach port
Removable CD-ROM	**5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button**
	EIDE / PIO Mode 3 (ATAPI)

ThinkPad 760LD strengths:

- ➪ **Removable, 4 x speed, 5.25" CD-ROM**
- ➪ **Automated tilt up keyboard / palm rest space**
- ➪ **UltraBay: 2nd disk, 2nd battery, diskette**
- ➪ **Two high speed infrared ports**
- ➪ **Integrated audio / speakers / microphone**
- ➪ **16.7 million simultaneous color LCD**

Price			
Type - model (part)	9547-U31(9547U31)	9547-U3A (9547U3A)	Pallete of 24 systems 9547-U3R (9547U3R)
Preload (see side)	SelectaSystem	Windows 95	Blank
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96
Remv disk - size / ms	**810 MB** / 12 ms / EIDE ○ / PIO Mode 4		

Display - diagonal size	**10.4 inch**
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Tridentä CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)
Weight (with CD-ROM)	7.11 pounds

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery

Exceeds MPC2 standard

Battery - type	NiMH / intelligent	*Optional*
Battery - life (1 batt)	3 hours	*Lithium Ion*
Battery - life (2 batt)	6 hours	
Charge time - on / off	1.7 hrs / 1.2 hrs	

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion)
	VL-Bus 2.0 / 32 bit / 33 Mhz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal adapter (40 watts) / Selectable boot
Motion video accel	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock
Preinstalled software	Choice of two preload configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
- ① 2nd disk
- ② 2nd battery
- ③ std diskette drive
- ④ std CD-ROM
- ⑤ 2.88 MB diskette (option)
- ⑥ PCMCIA Cartridge (option)
- ⑦ IBM Wireless Modem ARDIS (option)
- ⑧ IBM Wireless Modem for Cellular/ CDPD (option)

SELECTASYSTEM PRELOAD

- - IBM DOS 7.0
- - Windows 3.11
- - OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- - IBM PC Card Director™ 3.0
- - Online Users Guide
- - ThinkPad Features Program
- - Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- - Microsoft Windows 95
- - Online User's Guide
- - ThinkPad Features Program
- - Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows
9. NetFinity for Windows 95

Easy-Setup is entered by holding F1 when turning on.

Differences between 760L/LD and 760C/CD:

760L/LD	**760C/CD**
Pentium 90/60 MHz	Pentium 120/60 or 90/60
All 10.4" TFT	10.4" or 12.1" TFT
VGA 640 x 480 LCD	SVGA 800 x 600 LCD
16.7 mil colors on LCD	65,536 colors on LCD
None	760CD: Enh. Vid Card
None	760CD: MPEG decoder
None	Mwave DSP
None	28.8 modem / DSVD
18 voice FM synthesis	32 voice wavetable syn.
NiMH battery	Li-Ion battery
Type is 9547	Type is 9546

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760LD is 2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760 family:

- - Disks: (360/750/755 IDE disks not supported)
  - 720 MB HDD II EIDE   12.5 mm 29H9383
  - 810 MB HDD II EIDE   12.5 mm 29H9313
  - 1.08 GB HDD II EIDE   12.5 mm 29H9319
  - 1.2 GB HDD II (LD/CD only) 17 mm 29H9325
- - Second HDD Adapter   29H9333
- - Dock I (1 slot / 1 bay)   3545001
- - Dock II (2 slot / 2 bay)   3546001
- - Port Replicator I (w/ PCMCIA)   66G3510
- - Port Replicator II   66G3520
- - 2.88 MB diskette   66G0108
- - PCMCIA Cartridge   84G1301
- - **760 NiMH Battery (black)**   **41H9720**
- - **Li-Ion Battery Pack II (gray)**   **29H9329**
- - Travel Quick Charger   85G1522
- - FDD External Attachment Kit   66G3618
- - **Pentium 120/60 MHz upgrade**   **29H9340**
- - Car Battery Adapter   49G2167
- - ThinkPad AC Adapter (50 watts)   66G3541
- - 8 MB SO DIMM 3.3v non-parity EDO   92G7315
- - 16 MB SO DIMM 3.3v non-parity EDO   92G7316
- - ThinkPad headset   85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760LD) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760C - withdrawn

IBM® ThinkPad®:	✂ **760C** 12.1" or 10.4" TFT color						**ThinkPad 760C strengths:**
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory						⇨ **Tilt up keyboard and palm rest space**
Processor speed	**90/60 or 120/60 MHz** (see below)						⇨ **Largest notebook display models -- 12.1 inch**
Processor upgrade	to Pentium 120/60 MHz						⇨ **UltraBay: 2nd disk, 2nd battery, diskette**
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered						⇨ **Integrated 28.8 Kbps modem, audio, telephony**
Removable diskette	Internal 3.5" 1.44 MB ○ (in UltraBay)						⇨ **Two high speed infrared ports**
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM						

Price	U21	U2A	U22	U2B	U27	U2H	U28	U2J
Type - model **all 9546**	U21	U2A	U22	U2B	U27	U2H	U28	U2J
Preload (see side)	SelectaSys	Win 95	SelectaSys	Win 95	SelectaSys	Win 95	SelctaSys	Win 95
Pentium speed	**90/60 MHz**		**90/60 MHz**		**120/60 MHz**		**120/60 MHz**	
Remv disk - size / ms	**720 MB** / 13 ms / EIDE○		**720 MB** / 13 ms / EIDE○		**720 MB** / 13 ms / EIDE○		**1.08 GB** / 13 ms / EIDE○	
Avail / withdrawn date	Oct 1995 / Oct 1996		Oct 1995 / Oct 1996		Nov 1995 / Oct 1996		Jan 1996 / Oct 1996	

Display - diagonal size	**12.1 inch**	**10.4 inch**	**12.1 inch**	**12.1 inch**
Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**			
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio			

Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)

SELECTASYSTEM PRELOAD

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard* to
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	access and remove diskette
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**	drive, 1st/2nd disk, and
Ext keyboard support	Yes (with option cable)	1st/2nd battery

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) with selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™ 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2
- Complimentary Applications CD-ROM
- Lotus SmartSuite 4.0 CD-ROM

Dimensions (cubic in)	*10.4" models:* 11.7 x 8.3 x 1.74" (169)	*12.1" models:* 11.7 x 8.3 x 1.92" (186)
Weight (with battery)	*10.4" models:* 6.1 pounds	*12.1" models:* 6.8 pounds
Battery - type	*10.4" models:* Lithium Ion / intelligent	*12.1" models:* Lithium Ion / intelligent
Battery - life (1 batt)	*10.4" models:* 3.8 hours *Opt*	*12.1" models:* 3.5 hours *Opt*
Battery - life (2 batt)	*10.4" models:* 7.6 hours *NiMH*	*12.1" models:* 7 hours *NiMH*
Charge time - on / off	*10.4" models:* 2 to 3 hrs / 1.5 to 2.5 hrs	*12.1" models:* 2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition
- Lotus SmartSuite 96 CD-ROM

Motion video accel	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Telephone	Telephone / answering machine / full duplex speakerphone

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock

FEATURES OF 760 MODELS

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**3 year -** ThinkPad EasyServ only (optional Overnight Repair Option) or carry-in

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760C is 2.16 GB with two 1.08 GB disks.

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760 family:
- Disks: (360/750/755 IDE disks not supported)
  - 720 MB HDD II EIDE   12.5 mm 29H9383
  - 1.08 GB HDD II EIDE   12.5 mm 29H9319
  - 1.2 GB HDD II (CD only)   17 mm   29H9325
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA)   66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge   84G1301
- **760 NiMH Battery (black)**   **41H9720**
- **Li-Ion Battery Pack II (gray)** **29H9329**
- Travel Quick Charger   85G1522
- FDD External Attachment Kit   66G3618
- **Pentium 120/60 MHz upgrade**   **29H9340**
- Car Battery Adapter   49G2167
- ThinkPad AC Adapter (50 watts) 66G3541
- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
- ThinkPad headset   85G1301

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760C) Compiled by Roger Dodson, IBM. October 1996

IBM® ThinkPad®:	⊰ **760CD**			
	12.1" TFT color - CD-ROM - Enhanced Video - MPEG			
Processor type	**Pentium® 90/60 or 120/60** (P54LM) / 64 bit to L2 cache / 32 bit to mem			
Processor upgrade	to Pentium 120/60 MHz from 90/60			
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered			
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally			
Removable CD-ROM	**5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button**			
	EIDE / PIO Mode 3 (ATAPI)			

Price				
Type - model	9546-U11	9546-U1A	9546-U13	9546-U1C
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Pentium speed	90/60 Mhz	90/60 MHz	120/60 MHz	120/60 MHz
Avail / withdrawn date	Oct 95 / Oct 96	Oct 95 / Oct 96	Jan 96 / Oct 96	Jan 96 / Oct 96
Remv disk - size / ms	**1.2 GB** / 12 ms / EIDE ○ / supports two internal disks			

Display - diagonal size	**12.1 inch**
Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	The left bay (UltraBay™) supports:
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	① 2nd disk; ② 2nd battery
Pointing / palm rest	**TrackPoint III™** / integrated palm rest	③ std diskette drive; ④ CD-ROM
Ext keyboard support	Yes (with option cable)	⑤ 2.88 MB diskette (option)
		⑥ PCMCIA Cartridge (option)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	⑦ IBM Wireless Modem ARDIS (option)
Weight (with CD-ROM)	7.47 pounds	⑧ IBM Wireless Modem for Cellular/
		CDPD (option)
Battery - type	Lithium Ion / intelligent *optional*	
Battery - life (1 batt)	3.1 hours *NiMH*	*Liftable (pop-up) keyboard to access*
Battery - life (2 batt)	6.2 hours	*and remove CD-ROM, diskette drive,*
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	*1st/2nd disk, and 1st/2nd battery*

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion, MPEG)	
	VL-Bus 2.0 / 32 bit / 33 Mhz (graphics, ACSII)	
Docking Station	Dock I and II	Easy-Setup is entered by holding F1
Port replicator	Port Replicator I and II	when turning on.
PCMCIA 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC Adapter 3 prong (35 watts) / Selectable boot	

Motion video (below)	**Video acceleration / composite and S-Video in/out / game port** (ASCII V7325)
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	Mwave MDSP2780 DSP with modem, fax, audio, telephony function
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for
	keyboard and DIMMS (requires Kensington) / PC Card lock
Preinstalled software	Choice of two preload configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

ThinkPad 760CD strengths over 760C:

➭ **Mobile multimedia - MPC2 compliant**
➭ **Removable, 4 x speed, 5.25" CD-ROM**
➭ **Video card (acceleration, composite in/out)**
➭ **Joystick/MIDI port**
➭ **MPEG-1 and MPEG-2 HHR decoder**

Integrated Mwave™ DSP provides:
① **Data modem function**
   - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
   - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
   - Stereo waveform record and playback
   - Qsound support (3-D effect)
   - 32 voice MIDI wave table synthesizer
   - SoundBlaster™ support / text to speech
   - MPEG audio decode
④ **Telephone function**
   - Full telephone (can use opt headset)
   - Telephone answering machine
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

SELECTASYSTEM PRELOAD
- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™; 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2
15. Asymetrix® Digital Video Producer™
- Catalog/Sampler CD-ROM
- Complimentary Applications CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSutie 4.0 CD-ROM

WINDOWS 95 PRELOAD
- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition
11. Asymetrix® Digital Video Producer™
- Catalog/Sampler CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM

FEATURES OF 760 MODELS
Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Enhanced Video Card in 760CD provides:	Compatible in ThinkPad 760 family:	
- **Acceleration** of 'Video for Windows'™ and MPEG motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.	- Disks: (360/750/755 IDE disks not supported)	
	720 MB HDD II EIDE 12.5 mm 29H9383	
	1.08 GB HDD II EIDE 12.5 mm 29H9319	
	1.2 GB HDD II (CD only) 17 mm 29H9325	
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk).	- Second HDD Adapter 29H9333	
	- Dock I (1 slot / 1 bay) 3545001	
	- Dock II (2 slot / 2 bay) 3546001	
	- Port Replicator I (w/ PCMCIA) 66G3510	
	- Port Replicator II 66G3520	
	- 1.44 MB diskette std in newer	
	- 2.88 MB diskette 66G0108	
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on VCR the screen of 760CD.	- PCMCIA Cartridge 84G1301	
	- **760 NiMH Battery (black)** **41H9720**	
	- **Li-Ion Battery Pack II (gray)** **29H9329**	
	- Travel Quick Charger 85G1522	
- **Mini game port** for MIDI or joystick	- FDD External Attachment Kit 66G3618	
- Includes a video in and video out ports (includes two video in/out cables)	- **Pentium 120/60 MHz upgrade** **29H9340**	
- Use software called Digital Video Producer™	- Car Battery Adapter 49G2167	
	- 8 MB SO DIMM 3.3v non-parity EDO 92G7315	
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles** (at 800 x 600)	- 16 MB SO DIMM 3.3v non-parity EDO 92G7316	
	- ThinkPad TrackPoint III Caps 39H1354	
	- ThinkPad headset 85G1301	

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable; ⊰ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(760CD) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760EL - withdrawn

IBM® ThinkPad®:	✂ **760EL**						
	11.3" DSTN color or 12.1" TFT color - thick						

Processor type	**Pentium[a] 100/66, 120/60, or 133/66** / 64 bit to L2 cache / 64 bit to mem
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache
L2 cache	None (not separately upgradeable)
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, or 8 x CD-ROM into UltraBay**

Price

				Pallette of 24 systems					Pallette 24 systems
Type - model	9547-U6G	9547-U6F	9547-U4F	9547-U6R	U4S	U4H	U48		9547-U4R
Preload (see side)	**Win 95**	**Win 95**	**Win 95**	**Blank** (none)		**Win 95**	**OS/2 Connect**		**Blank** (none)
Available date	May 1996	May 1996	May 1996	May 1996		May 1996	July 1996		May 1996
Pentium speed	**100/66 MHz**	**120/60 MHz**	**120/60 MHz**	**120/60 MHz**		**133/66 MHz**			**133/66 MHz**
Remv disk - size / ms	**810 MB** / 13 ms ◯		**1.08 GB** / 13 ms ◯	**810 MB**	**1.08 GB**	**1.08 GB** / 13 ms ◯			**1.08 GB** / 13 ms ◯
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks								

Display - size and type	**11.3 inch DSTN**	**12.1 inch TFT**	**11.3 DSTN**	**12.1 TFT**	**12.1 TFT**	**12.1 inch TFT**
Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600**			**12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors**		
	256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio			Black Matrix TFT - active matrix / 100 to 1 contrast ratio		

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	810 MB = DMA Mode 2 or PIO Mode 4
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors	1.08 GB = DMA Mode 2 or PIO Mode 4
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt	1.2 GB = DMA Mode 1 or PIO Mode 3

Memory - std / max	**8 MB** / 72 MB or 104 MB	**8 MB** / 72 or 104	**8 MB** / 72 MB or 104 MB	**16 MB** / 80 MB or 104 MB	**16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB				

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	**WINDOWS 95 PRELOAD**
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	
Pointing / palm rest	**TrackPoint III**ä / integrated palm rest / ext keyboard support (with option cable)	- Microsoft Windows 95

Dimensions | *11.3" models:* 11.7 x 8.3 x 1.98" (192) | *12.1" models:* 11.7 x 8.3 x 2.14" (208)
Weight | *11.3" models:* 6.7 pounds (3.04 kg) | *12.1" models:* 7.03 pounds (3.19 kg)

Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	*11.3" models:* 3.1 hours *12.1" models:* 3.3 hours
Battery - life (2 batt)	*11.3" models:* 6.2 hours *12.1" models:* 6.6 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Video in/out	None	**Liftable (pop-up) keyboard to access and**
MPEG decoder	None	**remove diskette drive, 1st/2nd disk, and 1st/**
DSP function	None	**2nd battery, and other UltraBay options**
Data/fax modem	None	
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**	

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. Puma TranXit™
3. NetFinity for OS/2
4. Prodigy
- Lotus SmartSuite 4.0 (entitled to SSuite 96)

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

BLANK PRELOAD

- License for SmartSuite

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

ThinkPad 760E supported disks:
- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5 mm 29H9319
- 1.2 GB (1.96" or higher models)   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96" in higher models)   69H8414
- 3.0 GB (1.96" + models)   17 mm   45H8789

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760EL supported batteries:
- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

Compatible in ThinkPad 760EL family:
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- IDE Conversion Card (for Dock II)   46H5994
- **SelectaDock I**   **3547001**
- **SelectaDock II**   **3547002**
- Port Replicator I (w/ PCMCIA slots)   66G3510
- Port Replicator II   66G3520
- **SelectaDock Base Model I**   **39H7405**
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge (one Type III)   84G1301
- FDD External Attachment Kit   66G3618
- Pentium 133/66 MHz/L2 upgrade   46H5991
- 35 watt AC Adapter (slim, 4 pin)   76H0119
- **4 x CD-ROM** (UltraBay)   **39H7413**
- **6 x CD-ROM** (UltraBay)   **85G1957**
- **8 x CD-ROM** (UltraBay)   **45H8786**
- **8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit   92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit   92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). ◯ = Removable
✂ Models U4F, U4H, U4R, U4S, U48 withdrawn effective January 1997; U6F eff July 1997

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No warranties are expressed or implied in this summary
(760EL) Compiled by Roger Dodson, IBM. June 1997

IBM® ThinkPad®:	✄ 760EL
	11.3" SVGA DSTN or 12.1" SVGA TFT - thick

Processor type	**Pentium® 120/60 or 133/66** / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache
L2 cache	None (not separately upgradeable) | **256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to optional CD-ROM into UltraBay**

Price			Pallette of 24 systems	
Type - model	**9547-U6H**	**9547-U4G**	**9547-U4T**	**9547-U4K**
Preload (see side)	**Windows 95**	**Windows 95**	**Blank** (none)	**Windows NT 4.0**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997	October 1996 / April 1997	Nov 1996 / July 1997
Pentium speed	**120/66 MHz**	**133/66 MHz**	**133/66 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.35 GB** / 13 ms ○	**2.1 GB** / 13 ms ○	**2.1 GB** / 13 ms ○	**2.1 GB** / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			

Display - size and type	**11.3 inch DSTN**	**12.1 inch TFT**	**12.1 inch TFT**	**12.1 inch TFT**
Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600**	**12.1" SVGA color / 640 x 480, 800 x 600 / 65,536 colors**		
	256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	Black Matrix TFT - active matrix / 100 to 1 contrast ratio		

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA / 1 MB EDO DRAM / 70 ns	Trident™ CYBER9385/64 bit SVGA/1 MB EDO DRAM/70 ns
Graph - arch/data path	PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors	PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	

Memory - std / max	**8 MB** / 72 MB or 104 MB	**16 MB** / 72 MB or 104 MB	**16 MB** / 80 MB or 104 MB	**32 MB**/80 MB or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for 2 JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB			1 socket available

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest / ext keyboard support (with option cable)

Dimensions	*11.3" models:* 11.7 x 8.3 x 1.98" (192)	*12.1" models:* 11.7 x 8.3 x 2.0" (194)
Weight	*11.3" models:* 6.7 pounds (3.04 kg)	*12.1" models:* 6.41 pounds (2.91 kg)

Battery - type	Lithium Ion / intelligent	*(optional NiMH battery supported)*
Battery - life (1 batt)	*11.3" models:* 2.7 hours	*12.1" models:* 3.0 hours
Battery - life (2 batt)	*11.3" models:* 5.4 hours	*12.1" modles:* 6.0 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None	
MPEG decoder	None	***Liftable (pop-up) keyboard** to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options*
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**	

Security	Power-on password / Hard disk password / Supervisor password /
	Security keyhole (requires cable) / Security latch for keyboard and
	DIMMS (requires cable) / PC Card lock / Personalization / Security Plate

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4

Maximum is 80 MB or 104 MB on all models, but 104 MB requires a ThinkPad Proven vendor option.

Compatible in ThinkPad 760EL family:

-	Second HDD Adapter	29H9333
-	Dock I (1 slot / 1 bay)	3545001
-	Dock II (2 slot / 2 bay)	3546001
-	IDE Conversion Card (for Dock II)	46H5994
-	**SelectaDock I**	**3547001**
-	**SelectaDock II**	**3547002**
-	**SelectaDock III**	**3547003**
-	Port Replicator I (w/ PCMCIA slots)	66G3510
-	Port Replicator II	66G3520
-	**SelectaDock Base Model I**	**39H7405**
-	2.88 MB diskette	66G0108
-	PCMCIA Cartridge (one Type III)	84G1301
-	FDD External Attachment Kit	66G3618
-	Pentium 133/66 MHz/L2 upgrade	46H5991
-	35 watt AC Adapter (slim, 4 pin)	76H0119
-	**4 x CD-ROM** (UltraBay)	**39H7413**
-	**6 x CD-ROM** (UltraBay)	**85G1957**
-	**8 x CD-ROM** (UltraBay)	**45H8786**
-	**8 - 20 x CD-ROM** (UltraBay)	**00K7903**
-	**8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
-	**16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
-	**32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760EL96) Compiled by Roger Dodson, IBM. October 1997

IBM® ThinkPad®: ✂ **760ELD**
12.1" TFT color - CD-ROM

Processor type	**Pentium® 100/66** (P54LM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache
L2 cache	None (not separately upgradeable)
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	**5.25" CD-ROM ◯ / 4 x speed / multi-session / XA / play with eject button** **EIDE / PIO Mode 3 (ATAPI)** / in UltraBay which supports several devices

Price	
Type - model	9547-U3F
Preload (see side)	**Windows 95**
Avail / withdrawn date	May 1996 / 1997
Remv disk - size / ms	**810 MB** / 13 ms ◯ / DMA Mode 2 or PIO Mode 4
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks

Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors

Memory - std / max	**8 MB** / 72 MB 70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ option cable)

Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.28 pounds (3.30 kg)

Battery - type	Lithium Ion / intelligent	*optional*
Battery - life (1 batt)	3.2 hours	*NiMH*
Battery - life (2 batt)	6.4 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

> **Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I, II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/
   CDPD (option)

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760ELD is 2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760ELD family:

-	Second HDD Adapter	29H9333
-	Dock I (1 slot / 1 bay)	3545001
-	Dock II (2 slot / 2 bay)	3546001
-	IDE Conversion Card (for Dock I/II)	46H5994
-	**SelectaDock I**	**3547001**
-	Port Replicator I (w/ PCMCIA slots)	66G3510
-	Port Replicator II	66G3520
-	**SelectaDock Base Model I**	**39H7405**
-	2.88 MB diskette drive	66G0108
-	PCMCIA Cartridge (one Type III)	84G1301
-	FDD External Attachment Kit	66G3618
-	Pentium 133/66 MHz/L2 upgrade	46H5991
-	**4 x CD-ROM** (UltraBay)	**39H7413**
-	**6 x CD-ROM** (UltraBay)	**85G1957**
-	**8 x CD-ROM** (UltraBay)	**45H8786**
-	**8-20 x CD-ROM** (UltraBay)	**00K7903**
-	**8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
-	**16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
-	**32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Fax
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB   = DMA Mode 1 or PIO Mode 3

ThinkPad 760 ELD supported disks:
- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE 12.5 mm 29H9319
- 1.2 GB (1.96"+ models) 17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96"+ models) 17 mm   69H8414
- 3.0 GB (1.96"+ models) 17 mm   45H8789
- 5.1 GB (1.96" or higher models) 00K7902

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray) 29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
   hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
**24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

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No warranties are expressed or implied in this summary
(760ELD) Compiled by Roger Dodson, IBM. December 1997

IBM® ThinkPad®:	✂ **760E**	✂ **760E**
	12.1" SVGA TFT - thick	12.1" SVGA TFT - thin

Processor type	**Pentium® 120/60 or 133/66** (P54LM) / 64 bit to L2 cache / 64 bit to mem		
Processor upgrade	to Pentium 133/66 MHz from 120/60		
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst		
Removable diskette	3.5" 1.44 MB ○ / in UltraBay		
External FDD port	External FDD port	None	
Removable CD-ROM	None / **upgrade CD-ROM**	None / can not install a CD-ROM (too thin)	

		Pallet of 24		
Price				
Type - model	**9546-U3B**	**9546-U3L**	**9546-U4B**	**9546-U4A**
Preload (see side)	**Windows 95**	**Blank**	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / Jan 1997		May 1996 / Jan 1997	May 1996 / Jan 1997
Pentium speed	**120/60 MHz**		**120/60 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.2 GB** / 12 ms ○		**810 MB** / 13 ms ○	**1.08 GB** / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			

Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 72 MB or 104 MB	**8 MB** / 72 MB or 104 MB	**16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO		
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB		

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ optional cable)

Dimensions	11.7 x 8.3 x 2.14" (208)	11.7 x 8.3 x 1.92" (186 cubic inches)
Weight	7.06 pounds (3.20 kg)	6.76 pounds (3.07 kg)

Battery - type	Lithium Ion / intelligent	*optional*	***Liftable (pop-up) keyboard* to access**
Battery - life (1 batt)	3.4 hours	*NiMH*	**and remove diskette drive, 1st/2nd**
Battery - life (2 batt)	6.8 hours		**disk, and 1st/2nd battery (thick**
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		**models support CD-ROM)**

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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Key differences between 760E and 760ED:

760E	**760ED**
No std CD-ROM	Standard CD-ROM
No video in/out	Video in/out and cable
No joystick/MIDI port	joystick/MIDI port
No MPEG decoder	MPEG decoder
Lighter	Heavier
Price	Price

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Fax
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

BLANK PRELOAD

- License for SmartSuite

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3

Memory is upgradeable to 104 MB with a ThinkPad Proven option.

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" or higher models)		69H8414

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
   hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD
   (option)

Maximum internal disk capacity on 760E is
4.2 GB with two 2.1 GB disks (thick models) or
2.8 GB with two 1.4 GB disks (thin models)

Easy-Setup is entered by holding F1 when
turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (for thick model)	**39H7413**
- **6 x CD-ROM** (for thick model)	**85G1957**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

IBM ThinkPad 760E (XGA) - withdrawn

IBM® ThinkPad®:	✂ **760E**
	12.1" XGA color - thick
Processor type	**Pentium® 150/60** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / in UltraBay
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade with optional CD-ROM into UltraBay**
Price	
Type - model	**9546-U9B**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks (so 4.2 GB max)
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600, or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ optional cable)
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight	6.41 pounds (2.91 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.6 hours *NiMH*
Battery - life (2 batt)	5.2 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password /
	Security keyhole / Security latch for keyboard and
	DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)

Key differences between 760E and 760ED:

760E	**760ED**
No std CD-ROM	Standard CD-ROM
No video in/out	Video in/out and cable
No joystick/MIDI port	Joystick/MIDI port
No MPEG decoder	MPEG decoder
Lighter	Heavier
Price	Price

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE 12.5 mm 29H9319
- 1.2 GB (1.96"+ models) 17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96"+ models) 17 mm   69H8414
- 3.0 GB (1.96"+ models) 17 mm   45H8789
- 5.1 GB (1.96"+ models) 17 mm   00K7902

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
  hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
**24 hour / 7 day telephone, bulletin
  board, fax, electronic, and Internet
  (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD
  (option)

Maximum internal disk capacity on 760E is
10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when
turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

-	Second HDD Adapter	29H9333
-	Dock I (1 slot / 1 bay)	3545001
-	Dock II (2 slot / 2 bay)	3546001
-	IDE Conversion Card (for Dock I/II)	46H5994
-	**SelectaDock I**	**3547001**
-	**SelectaDock II**	**3547002**
-	**SelectaDock III**	**3547003**
-	Port Replicator I (w/ PCMCIA slots)	66G3510
-	Port Replicator II	66G3520
-	**SelectaDock Base Model I**	**39H7405**
-	2.88 MB diskette drive	66G0108
-	PCMCIA Cartridge (one Type III)	84G1301
-	FDD External Attachment Kit	66G3618
-	35 watt AC Adapter (slim, 4 pin)	76H0119
-	**4 x CD-ROM** (UltraBay)	**39H7413**
-	**6 x CD-ROM** (UltraBay)	**85G1957**
-	**8 x CD-ROM** (UltraBay)	**45H8786**
-	**8 - 20 x CD-ROM** (UltraBay)	**00K7903**
-	**8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
-	**16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
-	**32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at
any location, IBM repairs and mails back (no shipping charges, most shipping is overnight,
3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760E96) Compiled by Roger Dodson, IBM. October 1997

IBM® ThinkPad®: ✂ **760ED**
12.1" SVGA TFT- 4 x CD-ROM - Enhanced Video - MPEG

Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	**5.25" CD-ROM ◯ / 4 x speed /** multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices

Type - model	**9546-U3A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**1.2 GB** / 12 ms ◯ / DMA Mode 1 or PIO Mode 3
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks
Avail / withdrawn date	May 1996 / January 1997

Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 262,166 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors

Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3v
Memory - upgrade	volt / EDO 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	The left bay (UltraBay™) supports:
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	① 2nd disk; ② 2nd battery
Pointing / palm rest	**TrackPoint III™** / integrated palm rest	③ std diskette drive; ④ CD-ROM
Ext keyboard support	Yes (with option cable)	⑤ 2.88 MB diskette (option)
		⑥ PCMCIA Cartridge (option)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	⑦ IBM Wireless Modem ARDIS (option)
Weight (with CD-ROM)	7.38 pounds (3.35 kg)	⑧ IBM Wireless Modem for Cellular/ CDPD (option)

Battery - type	Lithium Ion / intelligent	*optional*
Battery - life (1 batt)	2.8 hours	*NiMH*
Battery - life (2 batt)	5.6 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I and II**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMs (requires Kensington) / PC Card lock / Personalization / Security Plate

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled
- **Plays back MPEG motion videos, CD-I movies, video CDs, and Karaoke MPEG video titles** (at 640 x 480, 800 x 600, or externally at 1024 x 768)

Compatible in ThinkPad 760ED family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

ThinkPad 760ED strengths over 760CD:

- ➪ **Pentium 133/66 MHz** (vs 120/60 MHz)
- ➪ **PCI bus** (vs VL-Bus)
- ➪ **16 MB EDO memory** (vs 8 MB fast page)
- ➪ **64 bit path to memory** (vs 32 bit)
- ➪ **9385 64 bit graphics with 2 MB EDO**
- ➪ **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support / text to speech
  - MPEG audio decode
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
7. Asymetrix® Digital Video Producer™
8. MPEG Sampler (CD-ROM)
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5mm	29H9383
- 810 MB HDD II EIDE	12.5mm	29H9313
- 1.08 GB HDD II EIDE	12.5mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" or higher models)		69H8414

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

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No warranties are expressed or implied in this summary
(760ED) Compiled by Roger Dodson, IBM. December 1996

IBM® ThinkPad®:	✂ 760ED
	12.1" XGA TFT - 6 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ◯ / 6 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model	**9546-U9A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ◯ / DMA Mode 2 or PIO Mode 4
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 4.2 GB
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB w/ ThinkPad Proven option) 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with CD-ROM)	6.65 pounds (3.02 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.2 hours *NiMH*
Battery - life (2 batt)	4.4 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelctaDock I and II and III**
Port replicator	Port Replicator I and II / **SelctaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password /
	Security keyhole (requires cable) / Security latch for keyboard and
	DIMMS (requires cable) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery

ThinkPad 760ED strengths over 760CD:

- ➪ **Pentium 133/66 MHz** (vs 120/60 MHz)
- ➪ **PCI bus** (vs VL-Bus)
- ➪ **16 MB EDO memory** (vs 8 MB fast page)
- ➪ **64 bit path to memory** (vs 32 bit)
- ➪ **9385 64 bit graphics with 2 MB EDO**
- ➪ **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support / text to speech
  - MPEG audio decode
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95
6. Asymetrix® Digital Video Producer™
7. MPEG Sampler (CD-ROM)
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

ThinkPad 760ED supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5mm   29H9383
- 810 MB HDD II EIDE   12.5 mm   29H9313
- 1.08 GB HDD II EIDE   12.5 mm   29H9319
- 1.2 GB (1.96"+ models)   17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm   69H8412
- 2.1 GB (1.96"+ models)   17 mm   69H8414
- 3.0 GB (1.96"+ models)   17 mm   45H8789
- 5.1 GB (1.96"+ models)   17 mm   00K7902

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
  hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

Compatible in ThinkPad 760ED family:

- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- IDE Conversion Card (for Dock I/II)   46H5994
- **SelectaDock I**   **3547001**
- **SelectaDock II**   **3547002**
- **SelectaDock III**   **3547003**
- Port Replicator I (w/ PCMCIA slots)   66G3510
- Port Replicator II   66G3520
- **SelectaDock Base Model I**   **39H7405**
- 2.88 MB diskette drive   66G0108
- PCMCIA Cartridge (one Type III)   84G1301
- FDD External Attachment Kit   66G3618
- 35 watt AC Adapter (slim, 4 pin)   76H0119
- **4 x CD-ROM** (UltraBay)   **39H7413**
- **6 x CD-ROM** (UltraBay)   **85G1957**
- **8 x CD-ROM** (UltraBay)   **45H8786**
- **8 - 20 x CD-ROM** (UltraBay)   **00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**   **92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**   **92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**   **92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM® ThinkPad®: ✂ **760XL**
12.1" SVGA TFT - thick

Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, 8 x, or 8-20 x CD-ROM into UltraBay**

Type - model (code)	**9547-U9C** (Michigan MMX)	**9547-U9K** (Michigan MMX)
Preload (see side)	**Windows 95 OSR2**	**Windows NT Workstation 4.0**
Avail / withdrawn date	April 1997 / January 1998	April 1997 / January 1998
Remv disk - size / ms	**2.1 GB** / 13 ms ◯ / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks	

Display - size and type	**12.1 inch SVGA color / 640 x 480, 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors

Memory - std / max	**16 MB** / 104 MB	**32 MB** / 104 MB
Memory - sockets avail	2 sockets available	1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs	
	8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets	
	Memory module under disk (not removable) and accessible by opening keyboard	
	If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208)
Weight	6.7 pounds (3.05 kg)
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.3 hours (4.6 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None	
MPEG decoder	None	*Liftable (pop-up) keyboard* to access and
DSP function	None	remove diskette drive, 1st/2nd disk, and
Data/fax modem	None	1st/2nd battery, and other UltraBay options
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs	

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ Standard diskette drive
④ 2.88 MB diskette drive
⑤ CD-ROM

Maximum internal disk capacity on 760XL is
10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when
turning on.

810 MB   = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB   = DMA Mode 1 or PIO Mode 3
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB   = DMA Mode 2 or PIO Mode 4
3.0 GB   = DMA Mode 2 or PIO Mode 4
5.1 GB   = Ultra DMA/33 or PIO Mode 4

OPTIONS

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette	66G0108
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features
- Diskette Factory
1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. IntelliLink Connect
7. IBM AntiVirus
8. IBM Internet Connection Services with Netscape Navigator web browser
9. Registration Mailer
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

WINDOWS NT 4.0 PRELOAD

Microsoft Windows NT 4.0 Workstation
with utilities and device drivers

ThinkPad 760XL supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)	
- 720 MB HDD II EIDE 12.5 mm	29H9383
- 810 MB HDD II EIDE 12.5 mm	29H9313
- 1.08 GB HDD II EIDE 12.5 mm	29H9319
- 1.2 GB (1.96"+ models) 17 mm	29H9325
- 1.4 GB HDD 3L EIDE 12.5 mm	69H8412
- 2.1 GB (1.96"+ models) 17 mm	69H8414
- 3.0 GB (1.96"+ models) 17 mm	45H8789
- 5.1 GB (1.96"+ models) 17 mm	00K7902

FEATURES OF 760 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
   hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
**24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®:	✂ **760XD**
	12.1" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ○ / 8 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9E** (Michigan MMX**)**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	April 1997 / January 1998
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail
	Memory module under disk (not removable) and accessible by opening the keyboard
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions / weight	11.7 x 8.3 x 2.0" (194 cubic inches) / 7.0 pounds (3.18 kg) with CD-ROM
Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	Dock I and II / **SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave
Audio support	16 bit audio chip on planar with Mwave DSP
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

optional NiMH (Battery - life)

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ std CD-ROM
⑤ 2.88 MB diskette

Integrated Mwave™ DSP provides:
① **Data modem function**
  - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster support / text to speech
  - MPEG audio decode
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760XD supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

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  board, fax, electronic, and Internet
  (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

OPTIONS

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- Other options from ThinkPad Proven partners	

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

IBM® ThinkPad®:	765L 13.3" XGA TFT

Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x or 6 x or 8 x CD-ROM into UltraBay**

Type - model (code)	**9547-U9J**
Preload (see side)	**Windows 95 OSR2**
Avail / withdrawn date	June 1997 / July 1998
Remv disk - size / ms	**3.0 GB** / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks / SMART

Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors

Memory - std / max	**32 MB** / 104 MB
Memory - sockets avail	1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)

Dimensions	11.7 x 9.3 x 2.23" (243 cubic inches)
Weight	7.4 pounds (3.34 kg)

Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.1 hours (4.2 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	**SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs

> **Liftable (pop-up) keyboard** to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features
- Diskette Factory
1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. IntelliLink Connect
7. IBM AntiVirus
8. IBM Internet Connection Services with Netscape Navigator web browser
9. Registration Mailer
10. ThinkPad on the NET
11. America Online
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

ThinkPad 765L supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

FEATURES OF 765 MODELS

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Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ Standard diskette drive
④ 2.88 MB diskette drive
⑤ CD-ROM

Maximum internal disk capacity on 765L is 10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4
3.0 GB	= DMA Mode 2 or PIO Mode 4
5.1 GB	= Ultra DMA/33 or PIO Mode 4

- Second HDD Adapter	29H9333
- IDE Conversion Card (for Dock II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette	66G0108
- FDD External Attachment Kit	66G3618
- 56 watt AC Adapter (4 pin; 3 prong)	12J2456
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **16 MB SO DIMM NP EDO 64 bit (new)**	**01K1124**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- PCMCIA 33.6 Kbps modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
○ = Removable

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No warranties are expressed or implied in this summary
(765L) Compiled by Roger Dodson, IBM. June 1998

IBM® ThinkPad®:	**765D**
	13.3" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ○ / 8 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9H**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ○ / DMA Mode 2 or PIO Mode 4 / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	June 1997 / July 1997　　　　　(C: is 1.99 GB, D: is 885 MB)
Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB　　70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail
	Memory module under disk (not removable) and accessible by opening the keyboard
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions / weight	11.7 x 9.3 x 2.23" (243 cubic inches) / 7.7 pounds (3.49 kg) with CD-ROM
Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	**SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.21
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service Options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years

optional NiMH

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ std CD-ROM
⑤ 2.88 MB diskette

Enhanced Video Card in 765D provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

- Second HDD Adapter	29H9333
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 56 watt AC Adapter (4 pin; 3 prong)	12J2456
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **16 MB SO DIMM NP EDO 64 bit (new)**	**01K1124**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- PCMCIA 33.6 Kbps modem XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory Utilities
1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. SofNet FaxWorks™ Voice
7. Asymetrix® Digital Video Producer
8. IntelliLink Connect
9. IBM AntiVirus
10. IBM Internet Connection Services with Netscape Navigator web browser
11. Registration Mailer
12. ThinkPad on the NET
13. America Online
- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Integrated Mwave DSP provides:
① **Data modem function**
 - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
 - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
 - Stereo waveform record and playback
 - Qsound support (3-D effect)
 - 32 voice MIDI wave table synthesizer
 - SoundBlaster support / text to speech
 - MPEG audio decode
④ **Telephone function**
 - Full telephone (can use opt headset)
 - Telephone answering machine
 - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 765D supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 765 supported disks:

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

FEATURES OF 765 MODELS

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Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®:

Processor type/path	**Pentium® MMX™ 200/66 or 233/66MHz**[1] (Tillamook) / 64bit to L2 and memory
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO
L2 cache	**512KB** / write-back / direct mapped / 7ns data; 15ns tag / sync pipelined burst
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally
External FDD port	External diskette port (use std cable to attach diskette drive externally)
CD-ROM (removble)	*Option:* **5.25" CD-ROM / 20X-8X**[5] **or 24X-10X**[5] **speed** / CAV / bootable / hot swapping EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II
DVD (removable)	*Option:* **DVD-ROM drive** / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port

Type - model	**9548-40U**	**9548-30U**	**9548-31U**	**9549-1AU**	**9548-32U** (AAP)
Processor	**200/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**
Display (diagonal)	**13.3" XGA**	**13.3" XGA**	**13.3" XGA**	**14.1" XGA**	**13.3" XGA**
Disk (removable)	**3.2GB**[4] / PIO4	**4GB** / PIO4	**4GB** / DMA33	**5.1GB** / PIO4	None
Preload (see side)	**W95 OSR2**	**W95 OSR2**	**NT 4.0 SP3**	**W95 OSR2**	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	Optional	**Standard**	Optional
Modem	Opt PC Card	Opt PC Card	Opt PC Card	**33.6Kbps** (upg)	Opt PC Card
Avail / withdrawn date	October 1997 / September 1998				

Memory - std / max	**32MB** / 256MB[3] non-parity / 3.3v / **SDRAM** / 83 or 100MHz
Memory - upgrade	2 sockets available for two JEDEC 144 pin EDO or SDRAM SO-DIMMs Sockets accessed by removing screw on bottom / can mix SDRAM w/ 760-supported EDO

Display - size (colors)	**XGA color / 640 x 480 (16M), 800 x 600 (16M), or 1024 x 768 (65,536 siml colors**)
Display - techology	**Active Matrix TFT -** 100 to 1 contrast ratio / 180 degree tilt

Graphics - controller	**Trident™ CYBER9397** / 64-bit SVGA accelerator / **2MB SGRAM** / 83MHz
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, ActiveMovie support / ZV interface
Graphics - features	**3D hardware accelerator** / interpolation in X and Y axis / color space conversion
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors (75Hz) or 1024 x 768 w/ 65,536 colors

Disk (removable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4

Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top

Dimensions	*1AU:* 12.3 x 10 x 2.2" (270 cubic in) / 7.8 pounds (3.55 kg) with battery/diskette
Weight[2]	*Others:* 12.3 x 9.5 x 2.2" (257 cubic inches) / 7.4 pounds (3.35 kg) with batt/diskette

Battery - type	Lithium Ion / intelligent / left side
Battery - life (1 batt)	*1AU:* 3.5 hrs (7 hrs with second battery in UltraBay II) / *Others:* 4 hrs (8 hr w/ 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) **Intel 430TX PCIset** / TI PCI1250 for CardBus / LM75 digital thermometer
Port replicator	**SelectaBase 770** / PC Card Enabler
Docking Station	**SelectaDock III / SelectaDock I and II**
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / **CardBus 32-bit PCI** / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot

Video in/out	*1AU or option:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL
MPEG decoder	*1AU or option:* MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz
Data/fax modem	*1AU:* 33.6Kbps (56Kbps upgradeable via x2[8]) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA
Audio support	16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) **/ 1 watt /** rotary volume control (right) **/** int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**

Security	Power-on password / Hard disk password / Supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays

Limited warranty[11]	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in / international
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 5 years

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DVD and Enhanced Video Adapter provides (standard in 1AU; optional all others):

- **MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder** (audio decoded via software)
- **DVD movie playback** (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3
- Includes video in/out cable

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	83H6735
- SelectaDock I[18]	3547001
- SelectaDock II[18]	3547002
- **SelectaDock III**[18]	**3547003**
- **SelectaBase PC Card Enabler**	83H6741
- **760 UltraBay Tray for SD III**	**11J8839**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **20X-8X CD-ROM Drive** (UltraBay II)	11J8933
- **24X-10X CD-ROM Drive** (UltraBay II)	02K0516
- **DVD CD-ROM Drive** (UltraBay II)	11J8950
- DVD and Enh Video Adapter	11J8957
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- 56K PC Card Modem Kit	04K0052
- ThinkPad 770 Li-Ion Battery	83H6738

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:
① std diskette; ② optional DVD drive;
③ optional CD-ROM; ④ optional 2nd disk;
⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive;

Easy-Setup is entered by holding F1 when turning on.

Screens are 150 nits (90 nits on battery)

ThinkPad 770 supported disks:
- **3.2GB** 13ms read/14ms write
  17 mm   PIO Mode 4 or DMA Mode 2
- **4.0GB** 13ms read/14ms write
  12.5 mm   PIO Mode 4 or Ultra DMA/33
- **5.1** and **8.1GB** 12ms read/13ms write
  17 mm   PIO Mode 4 or Ultra DMA/33
- All 760 supported disks (requires opt adaptr)

FEATURES OF 770 MODELS

Wired for Management 1.1a
PC 97 compliant
DMI 1.1 compliant
DMI instrumentation (thermal monitoring)
Wake-on-LAN via SelectaDock III
C: is 1.99 GB, D: is up to 1.99 GB, etc.
Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

IBM ThinkPad® 770E and 770ED - withdrawn

IBM® ThinkPad®:	770E	770E	770ED	770E (AAP)
Processor type/path	**Pentium® II 266/66MHz**[1] (Deschutes) / 64-bit to L2 and memory			
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO			
L2 cache	**512KB** / write-back / 4 way set associative/ sync pipelined burst / ECC / 133MHz			
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally			
External FDD port	External diskette port (use std cable to attach diskette drive externally)			
CD-ROM (removble)	*Option:* **5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / bootable / hot swap EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II			
DVD-ROM (remvble)	*Std or option:* **DVD drive** / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port			
Type - model	**9548-51U**	**9548-52U**	**9549-5AU**	**9548-53U** (AAP)
Display (diagonal)	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**
Disk (removable)	**5.1GB**[4] / PIO4	**5.1GB** / DMA33	**8.1GB** / PIO4	None
DVD-ROM drive	Optional	Optional	**Standard DVD**	Optional
Preload (see side)	**W95 OSR2.1**	**NT 4.0**	**W95 OSR2.1**	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	**Standard**	Optional
Modem	Opt PC Card	Opt PC Card	**56Kbps**	Opt PC Card
Avail / withdr date	April 1998 / December 1998			
Memory - std / max	**32MB** / 288MB[3]	**32MB** / 288MB[3]	**64MB** / 288MB[3]	**32MB** / 288MB[3]
Memory - upgrade	**SDRAM** / 83 or 100MHz (EIDE, graphics, MPEG, USB, ext expansion) 144 pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom			
Display - size (colors)	**XGA color** / 640x480, 800x600, or **1024x768 (16 million simultaneous colors)**			
Display - techology	**Active Matrix TFT -** 100 to 1 contrast / 150 nits (AC) / 90 nits (batt) / 180 degree tilt			
Graphics - controller	**Trident™ CYBER9397E** / 64-bit accelerator / **4MB SGRAM** / 83MHz			
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, DirectX 5.0 support / ZV interface			
Graphics - features	**3D hardware accelerator** / interpolation in X and Y axis / color space conversion			
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) or 1024x768 w/ 16M colors			
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART			
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4			
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest			
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)			
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps			
Dimensions	12.3 x 10 x 2.2" (270 cubic in) / *5AU:* 7.8 pounds (3.5 kg) with battery/diskette			
Weight[2]	*Others:* 7.6 pounds (3.45 kg) with battery/diskette			
Battery - type	Lithium Ion / intelligent / left side			
Battery - life[10] (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	**Intel 440BX PCIset** / TI® PCI1250A for CardBus / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)			
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]			
Docking Station	**SelectaDock III / SelectaDock I and II**			
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video			
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot			
Video in/out	*5AU or option:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL			
MPEG decoder	*5AU or option:* MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz			
Data/fax modem	*5AU:* 56Kbps (x2, upgradeable to v.90[8]) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA			
Audio support	16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) **/ 1 watt /** rotary volume control (right) **/** int microphone			
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex			
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**			
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays			
Limited warranty[11]	**3 year** - ThinkPad EasyServ[31] (door-to-door depot repair service) or carry-in Rapid Depot Repair (12 hr service from arrival time for 3 bus day average turnaround)			
Service options[15]	On-site[32], M-F, 8-5, next bus day (71 cities) / serv up to 5 yrs from purchase date			

DVD and Enhanced Video Adapter (DEVA)
provides (standard in 5AU; optional all others):

- **MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder** (audio decoded via software)
- **DVD movie playback** (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3
- Includes video in/out cable

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	**83H6735**
- **SelectaDock III**[18]	**3547003**
- **PC Card Enabler with EtherJet**[18]	**05K4820**
- **760 UltraBay Tray for SD III**	**11J8839**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **20X-8X CD-ROM Drive** (UltraBay II)	11J8933
- **24X-10X CD-ROM Drive** (UltraBy II)	02K0516
- **DVD Drive** (UltraBay II)	05K8886
- DVD and Enh Video Adapter	11J8957
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- 900MHz Cordless Comp Connection	04K0064
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad 770 Li-Ion Battery	83H6738
- External Battery Charger	11J8985

WINDOWS 95 PRELOAD[16]

- - Microsoft® Windows® 95 OSR2.1 (FAT16)
- • Online User's Guide
- • ThinkPad Customization Center
- • ThinkPad Configuration Program
- • SystemSoft CardWorks
- • Diskette Factory Utilities
- • Puma IntelliSync 97; 2. IBM AntiVirus
- • Asymetrix Digital Video Producer (5AU)
- • RingZero Ring Central (5AU only)
- • Intelliquest Registration Mailer
- • Voyetra Audiostation
- • ConfigSafe
- • IBM Internet Connection services with Netscape Navigator web browser
- • Intel® LANDesk® Client Manager
- • Intel Video Phone (receive) (5AU only)
- • ThinkPad PointCast
- • Ergonomics
- • ThinkPad on the NET
- • NetFinity for Windows 95
- ◇ Recovery CD-ROM with boot diskette
- ◇ Customization CD-ROM (apps/drivers)

WINDOWS NT 4.0 PRELOAD

- - Windows NT® Workstation (FAT16)
- • Service Pack 3
- • Internet Explorer 4.01
- • Advanced NT extensions
- • Online User's Guide
- • ThinkPad Configuration Program
- • SystemSoft CardWizard
- • IBM AntiVirus
- • IBM Internet Connection services with Netscape Navigator web browser
- • Intel LANDesk Client Manager
- • Artisoft ConfigSafe
- • Puma IntelliSync 97
- ◇ Customization CD-ROM (apps/drivers)

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:
① std diskette; ② optional DVD drive;
③ optional CD-ROM; ④ optional 2nd disk;
⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive

ThinkPad 770 supported disks:

- **3.2GB** 13ms read/14ms write
   17 mm   PIO Mode 4 or DMA Mode 2
- **4.0GB** 13ms read/14ms write
   12.5 mm   PIO Mode 4 or Ultra DMA/33
- **5.1GB** 12ms read/13ms write
   17 mm   PIO Mode 4 or Ultra DMA/33
- **8.1GB** 12ms read/13ms write
   17 mm   PIO Mode 4 or Ultra DMA/33
- All 760 supported disks (requires opt adaptr)

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN™ support[28]
C: is 1.99G, D: up to 1.99G (FAT32), etc.
Setup Guide, User's Guide, Up and Running, Windows 95 manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

IBM ThinkPad® 770X - withdrawn

IBM® ThinkPad®:	770X	770X	770X	770X	770X (AAP)
Processor	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module				
L2 cache	**512KB** / write-back / 4 way set associative/ sync pipelined burst / ECC / 150MHz				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / hot swap/ use in UltraBay II				
DVD-ROM (remvble)	*Std or option:* **2X**[5] **DVD drive** / 16X-8X[5] speed / CAV / use in UltraBay II				

Type - model	**9549-71U**	**9549-72U**	**9549-7AU**	**9549-7BU**	**9549-73U**(AAP)
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4,0**	**Blank** (no disk)
DVD or CD-ROM	**DVD-ROM**	**CD-ROM**	**DVD-ROM**	**CD-ROM**	**Optional**
Display (diagonal)	**14.1" TFT XGA (1024x768)**		**13.7" TFT SXGA (1280x1024)**		**14.1" TFT XGA**
Disk (removable)	**8.1GB**[4] / 12ms read / 13ms write				**None**
Avail / withdr date	October 1998 / June 1999				

Memory - std / max	**64MB** / 320MB[21]		**128MB** / 320MB[21]		**64MB** / 320MB[21]
Available sockets	2 available sockets		1 socket (one used by 64MB)		2 available
Memory - features	**SDRAM** / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom				
	64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs				

Display - size	**14.1"** (358mm) **color / 1024x768**	**13.7"** (348mm) **SXGA color / 1280x1024**
Display - colors	**16.7 million simultaneous colors**	**65,536 simultaneous colors**
Display - techology	**Active Matrix TFT** / 180 degree tilt	

Graphics - controller	**Trident™ CYBER9397DVD** / **Accelerated Graphics Port** / 64-bit accelerator		
Graphics - arch	**4MB SGRAM** / 83MHz	**8MB SGRAM** / 83MHz	**4MB SGRAM**
Graphics - features	**3D hardware accelerator** / AGP-1x / sideband / **motion compensation** / Direct3D		
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support[26]		

Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks /
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/
	center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions / weight[2]	12.3 x 10 x 2.2" (270 cubic in) / *14.1" mod:* 7.57 lbs (3.43 kg) with battery/diskette
	13.7" mod: 7.63 lbs (3.46 kg) with battery/diskette
Battery - type	Lithium Ion / intelligent / left side
Battery - life[10] (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]
Docking Station	**SelectaDock III / SelectaDock I and II**
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video in/out	*Option on DEVA:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL
MPEG	Software support for MPEG-2[27] because 300MHz with motion compensation
Data/fax modem	**56Kbps** (x2, upgradeable to v.90[8]) / voice-capable /
	integrated Mwave® 3780i DSP / international programmable DAA
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX
	Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / hard disk password / supervisor password / security keyhole /
	personalization / phillips-head screws on base for battery and UltraBay II bays
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day
	average turnaround
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

Optional **DVD and Enhanced Video Adapter (DEVA)** 10L1228 provides:

- **MPEG-1, MPEG-2 HHR, and full MPEG-2**[27] **hardware decoder** (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz
- **DVD movie playback**[27] (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 14.1GB disk, 12ms, Ultra DMA/33	02K0526
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	83H6735
- **SelectaDock III**[18]	3547003
- **PC Card Enabler with EtherJet™**[18]	05K4820
- **760 UltraBay Tray for SD III**	11J8839
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **24X-10X CD-ROM Drive** (UltraBy II)	02K0516
- **2X DVD Drive** (UltraBay II)	05K8886
- DVD and Enh Video Adapter (DEVA)	10L1228
- **32MB SO DIMM 3.3v NP SDRAM**	76H0294
- **64MB SO DIMM 3.3v NP SDRAM**	20L0241
- **128MB SO DIMM 3.3v NP SDRAM**	01K1150
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad 770 Li-Ion Battery	83H6738
- External Battery Charger	11J8985

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Registration
- Puma IntelliSync 97
- Norton AntiVirus
- Mediamatics DVD Express
- Artisoft ConfigSafe
- IBM Global Network Dialer
- Netscape Navigator web browser
- ThinkPad on the Net
- Ring Central
- Intel Video Phone
- Ergonomics
- Update Connector
- ◇ Recovery CD-ROM (with boot diskette)
- ◇ Customization CD-ROM (apps/drivers)

WINDOWS NT 4.0 PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 3
- Internet Explorer 4.01
- Advanced NT extensions
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Norton AntiVirus (OEM Version)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Ergonomics
- IBM Registration
- SystemSoft CardWizard
- ConfigSafe
- Puma IntelliSync 97
- ◇ Recovery CD-ROM (with boot diskette)
- ◇ Customization CD-ROM (apps/drivers)

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:
- std diskette
- std or optional DVD drive
- std or optional CD-ROM
- optional 2nd disk
- optional 2nd battery (requires adapter; cold swap only)
- optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)

ThinkPad 770 supported disks:

- **3.2GB** 13ms read/14ms write 17 mm
- **4.0GB** 13ms read/14ms write 12.5 mm
- **5.1GB** 12ms read/13ms write 17 mm
- **8.1GB** 12ms read/13ms write 17 mm
- All 760 supported disks (requires opt adaptr)

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Guide, Windows 98 or NT manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

All trademarks are the property of their respective owners

IBM **ThinkPad® 770Z - withdrawn**

IBM® ThinkPad®:	770Z	770Z	770Z	770Z	770Z (AAP)
Processor	**Intel® Mobile Pentium® II 366MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module				
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / hot swap/ use in UltraBay II				
DVD-ROM (remvble)	*Std or option:* **2X**[5] **DVD drive** / use in UltraBay II / CD-ROM speed of 16X-8X[5]				
Type - model	**9549-81U**	**9549-82U**	**9549-8AU**	**9549-8BU**	**9549-83U** (AAP)
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4,0**	**Blank** (no disk)
DVD or CD-ROM	**DVD-ROM**	**CD-ROM**	**DVD-ROM**	**CD-ROM**	**Optional**
Display (diagonal)	**14.1" TFT XGA (1024x768)**		**13.7" TFT SXGA (1280x1024)**		**14.1" TFT XGA**
Disk (removable)	**14.1GB**[4] / 12ms / 4902rpm / PIO4 or Ultra DMA/33 / 17mm high				**None**
Avail / withdrawn	February 1999 / December 1999				
Memory - std / max	**128MB** / 320MB[21]				
Available sockets	1 available socket (one used by 64MB SO-DIMM)				
Memory - features	**SDRAM** / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom / 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs				
Display - size	**14.1"** (358mm) **color / 1024x768**		**13.7"** (348mm) **SXGA color / 1280x1024**		
Display - colors	**16.7 million simultaneous colors**		**65,536 simultaneous colors** at 1280x1024		
Display - technology	**Active Matrix TFT** / 180 degree tilt				
Graphics - controller	Trident™ **CYBER9397DVD** / Accelerated Graphics Port / 64-bit accelerator				
Graphics - arch	**4MB SGRAM** / 83MHz		**8MB SGRAM** / 83MHz		**4MB SGRAM**
Graphics - features	**3D hardware accelerator** / AGP-1x / sideband / **motion compensation**				
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support[26]				
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART[29]				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions / weight[2]	12.3 x 10 x 2.2" (270 cubic in) / *14.1" mod:* 7.79 lbs (3.53 kg) with battery/DVD / *13.7" mod:* 7.85 lbs (3.56 kg) with battery/DVD				
Battery - life[10] (1 batt)	4.0 hrs (8 hrs with second battery in UltraBay II) / lithium Ion / intelligent / left side				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]				
Docking Station	**SelectaDock III**[18] / SelectaDock I and II				
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	*Option on DEVA:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG-2 playback[27]	*W98 models:* Full MPEG-2 playback		*NT models:* Optional via DEVA		
DVD movie playback[34]	*W98 models:* Yes		*NT models:* No (limitation of NT)		
Data/fax modem	**56K**[22] / V.90 / integrated Mwave® 3780i DSP / voice-capable / international programmable DAA				
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record / CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX / Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone				
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ[31] Rapid Depot Repair (3 business day average turnaround)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

Optional **DVD and Enhanced Video Adapter (DEVA)** 10L1228 provides:	
- **MPEG-1, MPEG-2 HHR, and full MPEG-2**[27] **hardware decoder** (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz	- 5.1GB disk, 12ms, Ultra DMA/33 — 11J8947
- **DVD movie playback**[27] (MPEG-2 decoding; decryption and audio decoding via software)	- 8.1GB disk, 12ms, Ultra DMA/33 — 02K0517
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay	- 14.1GB disk, 12ms, Ultra DMA/33 — 02K0526
	- 2nd Disk Adapter (for 760/770 disks) — 11J8836
	- SelectaBase 770 — 83H6735
	- SelectaDock III[18] — 3547003
	- PC Card Enabler[18] — 83H6741
	- PC Card Enabler with EtherJet[18] — 05K4820
	- 760 UltraBay Tray for SD III — 11J8839
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad	- Ultraslim 56 watt AC Adpter (3 prong) — 02K6545
	- 24X-10X[5] CD-ROM Drive (UltraBy II) — 02K0516
	- 2X[5] DVD Drive (UltraBay II) — 05K8886
	- DVD and Enh Video Adapter (DEVA) — 10L1228
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier	- 32MB SO DIMM 3.3v NP SDRAM — 76H0294
	- 64MB SO DIMM 3.3v NP SDRAM — 20L0241
	- 128MB SO DIMM 3.3v NP SDRAM — 01K1150
- **Three ports** - ① video in, ② video out, ③ AC-3	- V.90 PC Card Modem with XJACK[24] — 10L7393
	- ThinkPad 770 Li-Ion Battery — 83H6738

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Registration
- Puma IntelliSync 97
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (DVD mod)
- ConfigSafe
- IBM Global Network Dialer
- Netscape Communicator
- Universal Management Agent
- Access ThinkPad
- ThinkPad on the Net
- RingCentral
- Intel Video Phone
- IBM Update Connector
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows 98)
- ◇ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT 4.0 PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 4a
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Norton AntiVirus (OEM Version)
- IBM Global Network Dialer
- Netscape Communicator
- Universal Management Agent
- Access ThinkPad
- IBM Update Connector
- IBM Registration
- SystemSoft CardWizard
- ConfigSafe
- Puma IntelliSync 97
- ◇ Software Selections CD-ROM
- ◇ Recovery CD-ROM (Windows NT)

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:
- std diskette
- std or optional DVD drive
- std or optional CD-ROM
- optional 2nd disk
- optional 2nd battery (requires adapter; cold swap only)
- optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Guide, Windows 98 or NT manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID wireless RF technology (available only as an AAP option on the 770Z model 83U; Atmel® AT24RF08 EEPROM)
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad Power Series 820 - withdrawn

IBM® ThinkPad®:	✂ **820** PowerPC - TFT color - CD-ROM

Processor type	**Power PC 603e** / 100/33 MHz / 32 KB L1 cache
L2 cache	256 KB / write through / 2 way associative / 32 bit transfers
Processor / L2 upgrade	None
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships 　with an external case with cable
Removable CD-ROM	**5.25" CD-ROM** ○ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM

Type - model	6040-xxx (listed below)
Available date	July 1995 or later (listed below)
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector
Removable disk - size	*Choice:* **540 MB** 14 ms ❑ ○ / **810 MB** 14 ms ❑ ○ / **1.2 GB** 12 ms ○

Display - type	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below)
Display - techology	**Black Matrix TFT - active matrix / up to 65,536 simultaneous colors**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600

Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Video function	*Some:* **Video acceleration / composite in/out** (called G10 Graphics with 　Motion Video Adapter) with Personal Conferencing for AIX CD-ROM

Memory - std / max	16 or 32 MB / 48 MB 70 ns / **parity** / 5 volt / 32 bit transfers
Mem - sockets	Standard: 1 or 2 SO DIMMs; available: 2 or 1 SO DIMM sockets (16 MB
Mem-options available	8, 16 MB JEDEC 72 pin SO DIMMs　　　　　　　　　　DIMM(s) std)

Keyboard / # of keys	Full size alp/num / 84 (no Fn key)	Easy-Setup is entered by holding F1 when
Keyboard slope	**Palm rest space**	power on
Mouse/pointing	**TrackPoint III**™	
Ext keyboard support	Yes (with option cable)	

Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)	**ALL 820 MODELS**
Color	Black	*Liftable (pop-up) keyboard* **to access**
Weight (with battery)	7.5 pounds (with CD-ROM)	**and remove CD-ROM, diskette drive,**
Battery - type	Nickel hydride (NiMH) / intelligent	**disk, battery, and memory**
Battery - life	2 to 5 hours	
Charge time - on / off	2.0 hrs / 1.5 hrs	

Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station	None
Port replicator	None
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence

Data/fax modem	None (use PCMCIA)
Audio support	**CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (.5 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)
Audio in/out jacks	Input jack / output jack
Infrared ports	None

Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock

Preinstalled software	*Choice:* none or select a supported operating system (listed on side)
Warranty	**3 year** - ThinkPad EasyServ
Warranty options	ThinkPad EasyServ Overnight Repair Option

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
✂ 6040-OCD	30H1553	**32 MB**	1.2 GB	800x600	G10	None	$ 7,999	Aug 95
✂ 6040-ODD	30H1554	**32 MB**	1.2 GB	800x600	G10	AIX	8,799	Aug 95
✂ 6040-OED	30H1555	**32 MB**	1.2 GB	800x600	G10	NT	8,299	Aug 95
✂ 6040-06D	30H1477	32 MB	810 MB	800x600	G10	None	7,549	Jul 95
✂ 6040-07D	30H1478	32 MB	810 MB	800x600	G10	AIX	8,399	Jul 95
✂ 6040-08D	30H1480	32 MB	810 MB	800x600	G10	NT	7,849	Jul 95
✂ 6040-966	30H1482	16 MB	810 MB	640x480	G10 w/ Motion	None	6,449	Jul 95
✂ 6040-986	30H1484	16 MB	810 MB	640x480	G10 w/ Motion	NT	6,749	Jul 95
✂ 6040-977	30H1486	**32 MB**	810 MB	640x480	G10 w/ Motion	AIX	8,399	Jul 95
✂ 6040-006	30H1487	16 MB	540 MB	640x480	G10	None	5,699	Jul 95
✂ 6040-026	30H1489	16 MB	540 MB	640x480	G10	NT	5,999	Jul 95
✂ 6040-017	30H1491	**32 MB**	540 MB	640x480	G10	AIX	7,649	Jul 95

ThinkPad Power Series 820 strengths:

⇨ **PowerPC performance**
⇨ **AIX or NT preloaded (or no operating sys)**
⇨ **Removable, double speed, 5.25" CD-ROM**
⇨ **Standard or optional Video Card**
　(acceleration, composite video in/out)

Operating System preloads:

① IBM AIX Version 4 for Clients 4.1.3
- Ultimedia Services Ver 2.1.2
- Insignia SoftWindows Ver 1.1
- Speech Dictation
- Personal Conferencing for AIX (some mod)
- Essentials! (catalogs and support)
- Power, Performance, Potential
　multimedia presentation
- CD-ROMs included: Program Pack, AIX
　backup, Pers Conferencing for AIX(some)
- Black 3 button mouse

② Microsoft Windows NT 3.51 Workstation
- Essentials! (catalogs and support)
- Power, Performance, Potential presenta
- Compuserve WinCIM Power Series Ed
- Introducing ThinkPad Power Series 820
- CD-ROMs included: Program Pack, NT
　backup

③ No preloaded operating system
- CD-ROMs included: Program Pack,
　Pers Conferencing for AIX (some mod)

④ IBM OS/2 Warp Connect (when available)
⑤ Solaris (when available)

G10 Graphics with Motion Video Adapter
(some models) provides:

- **Acceleration** of motion video with
　scaling (no interpolation) of image. Video
　may be scaled up to full screen
　without frame rate degradation
- **Composite in** (from camcorder,
　TV, VCR) for video capture (capture and
　digitize video), still image capture
　(capture and digitize still photo images),
　and overlay (view video on LCD without
　capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV,
　VCR) in NTSC.
- Includes a cable with in/out RCA jacks to
　connect to the "integrated video
　connector" on back of unit

Options for ThinkPad Power Series 820:
- Disks:　540 MB　SCSI-2　　30H1388
　　　　　810 MB　SCSI-2　　30H1392
　　　　　1.2 GB　SCSI-2　　30H1467
- AC Adapter 50 watts　　　　30H1403
- 820 Travel Quick Charger　　30H1373
- 820 NiMH Battery Pack　　　30H1369
- IBM Personal Microphone　　12H1504
- 8 MB SO DIMM parity　　　　92G7255
- 16 MB SO DIMM parity　　　92G7257

FEATURES OF 820 MODELS
Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded
　indention
Compatible with PowerPC Reference
　Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
**　board, fax, and electronic support**
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99
❑ = Upgradeable;　○ = Removable;　✂ = Withdrawn effective March 20, 1996

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No warranties are expressed or implied in this summary
(820) Compiled by Roger Dodson, IBM. February 1996

IBM ThinkPad Power Series 850 - withdrawn

IBM® ThinkPad®:	✂ **850** PowerPC - TFT color - CD-ROM - Video Card
Processor type L2 cache Processor / L2 upgrade Removable diskette	**Power PC 603e** / 100/66 MHz / 32 KB L1 cache 256 KB / write back / direct mapped / 64 bit transfers None Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable
Removable CD-ROM	**5.25" CD-ROM ○** / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM
Type - model Available date Disk controller Removable disk - size	6042-xxx (listed below) July 1995 or later (listed below) SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector *Choice:* **540 MB** 14 ms ❑ ○ **/ 810 MB** 14 ms ❑ ○ / **1.2 GB** 12 ms ○
Display - type Display - techology Display - diagonal size	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below) **Black Matrix TFT - active matrix** / up to 65,536 simultaneous colors 10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600
Graphics - controller Graphics - vendor Graph - arch/data path Video function Video camera	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter) Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz) PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt **Video acceleration / composite in/out** (called G10 Graphics with Motion Video) *Option:* CCD camera on top of LCD / NTSC / white balance, iris, lens focus
Memory - std / max Mem - sockets Mem-options available	16 or 32 MB / 80 to 96 MB 70 ns / **parity** / 5 volt / 64 bit transfers Standard: 2 SO DIMMs in 2 SO DIMM sockets; available: 2 IC DRAM sockets 4, 8, 16, 32 MB IC DRAMs / must be installed in matched pairs
Keyboard / # of keys Keyboard slope Mouse/pointing Ext keyboard support	Full size alp/num / 84 (no Fn key) Easy-Setup is entered by holding F1 Yes (legs pop out) / **palm rest space** when power on **TrackPoint III**™ Yes (with option cable)

ThinkPad Power Series 850 strengths:
- ➪ **PowerPC performance**
- ➪ **Collaborative and conversational computing**
- ➪ **Removable, double speed, 5.25" CD-ROM**
- ➪ **Video card (acceleration, composite video)**
- ➪ **Optional top mounted video camera**

Operating System Preloads:

① IBM AIX Version 4 for Clients 4.1.3
  - Ultimedia Services Ver 2.1.2
  - Insignia SoftWindows Ver 1.1
  - Speech Dictation
  - Personal Conferencing for AIX on CD
  - Essentials! (catalogs and support)
  - Power, Performance, Potential multimedia presentation
  - CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX
  - Black 3 button mouse
② Microsoft Windows NT 3.51 Workstation
  - Essentials! (catalogs and support)
  - Power, Performance, Potential presenta
  - Compuserve WinCIM Power Series Ed
  - Introducing ThinkPad Power Series 850
  - CD-ROMs included: Program Pack, NT backup
③ No preloaded operating system
  - CD-ROMs included: Program Pack, Personal Conferencing for AIX
④ IBM OS/2 Warp Connect (when available)
⑤ Solaris (when available)

G10 Graphics with Motion Video provides:
- **Acceleration** of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation
- **Composite in** (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV, VCR) in NTSC. So can use TV as an external display or record the contents of the screen to VCR
- ThinkPad 850 includes in/out RCA jacks on the back of the system

Dimensions Color Weight (with battery)	11.7 x 10.2 x 2.4" (286 cubic inches) Black 7.96 pounds (with CD-ROM)
Battery - type Battery - life Charge time - on / off	Nickel hydride (NiMH) / Intelligent 2 to 5 hours 2 hrs / 1.5 hrs

ALL 850 MODELS

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, and memory

(Battery removed from side)

Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	None None **2 Type I or 2 Type II or 1 Type III** One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284) Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Data/fax modem Audio support Audio in/out jacks Infrared ports	None (use PCMCIA) / voice-over-data using industry standard modems **CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset) Input jack / output jack / line in / line out (all 3.5 mm) None
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software Warranty Warranty options	*Choice:* none or select a supported operating system (listed below) **3 year** - ThinkPad EasyServ ThinkPad EasyServ Overnight Repair Option

Options for ThinkPad Power Series 850:
- Disks: 540 MB SCSI-2   30H1388
          810 MB SCSI-2   30H1392
          1.2 GB SCSI-2   30H1467
- AC Adapter 50 watts   30H1403
- **Video Camera (NTSC)**   **85G2715**
- 850 NiMH Battery Pack   85G2671
- 850 Quick Charger   85G2662
- IBM Personal Microphone   12H1504
- 4 MB IC DRAM 70ns 5v parity   92G7238
- 8 MB IC DRAM 70ns 5v parity   92G7241
- 16 MB IC DRAM 70ns 5v parity   92G7234
- 32 MB IC DRAM 70ns 5v parity   92G7235

FEATURES OF 850 MODELS

Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded indention
Compatible with PowerPC Reference
     Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
     board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
✂ 6042-9CD	29H8170	32 MB	1.2 GB	800x600	G10 w/ Motion	None	$ 8,999	Aug 95
✂ 6042-9DD	29H8171	32 MB	1.2 GB	800x600	G10 w/ Motion	AIX	9,849	Aug 95
✂ 6042-9ED	29H8173	32 MB	1.2 GB	800x600	G10 w/ Motion	NT	9,299	Aug 95
✂ 6042-96D	29H8196	32 MB	810 MB	800x600	G10 w/ Motion	None	8,549	Jul 95
✂ 6042-97D	29H8197	32 MB	810 MB	800x600	G10 w/ Motion	AIX	9,399	Jul 95
✂ 6042-98D	29H8199	32 MB	810 MB	800x600	G10 w/ Motion	NT	8,849	Jul 95
✂ 6042-967	29H8175	32 MB	810 MB	640x480	G10 w/ Motion	None	8,149	Jul 95
✂ 6042-977	29H8176	32 MB	810 MB	640x480	G10 w/ Motion	AIX	8,999	Jul 95
✂ 6042-987	29H8178	32 MB	810 MB	640x480	G10 w/ Motion	NT	8,449	Jul 95
✂ 6042-906	29H8180	16 MB	540 MB	640x480	G10 w/ Motion	None	6,669	Jul 95
✂ 6042-926	29H8182	16 MB	540 MB	640x480	G10 w/ Motion	NT	6,999	Jul 95

Compatible in 820 and 850: ① Disks, ② CD-ROM, ③ AC Adapter

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ○ = Removable; ✂ = Withdrawn effective March 20, 1996

[1] MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.

[2] Unless otherwise indicated, weight includes battery (and travel cover on ThinkPad 600) and excludes external diskette, CD, and/or DVD drives if applicable; actual weight may vary due to vendor components, manufacturing process and options.

[3] Current available memory options allow memory expansion up to 160MB using two 64MB SDRAM SO DIMMs in the two available slots for memory expansion. Memory expansion beyond 160MB will depend on the availability of memory options larger than 64MB built to IBM ThinkPad 600-770 specifications and such availability cannot be assured. EDO memory is not supported in ThinkPad 770E/ED models.

[4] GB means billion bytes when referring to hard drive capacity. Accessible capacity varies.

[5] Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

[6] DVD drive required for ThinkPad 770 models (standard in some models). For Dolby Digital output, the 'DVD and Enhanced Video Adapter' (11J8957) must be installed (standard in some models) and the ThinkPad notebook connected to appropriate receiver and external speakers.

[7] ThinkPad notebooks are delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

[8] Upgrade on 9549-1AU (770) and -5AU (770ED) and 770X via Internet software download at no additional charge (Internet access fees excepted). Software upgrade via the Internet to the V.90 56K ITU standard beginning in 4Q98. Subject to change without notice. x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[9] Software upgrade via the Internet to the V.90 56K ITU standard beginning 4Q98. Subject to change without notice.

[10] Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.

[11] For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.

[12] IBM makes no warranties, expressed or implied regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.

[13] If you qualify and subject to condition.

[14] Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

[15] Service options available based on specific ThinkPad notebook purchased; not all machine types and models are eligible, other limitations apply. Call 1800 426-3395 and request document #11008 or call your IBM authorized reseller for additional information. Service options must be purchased during the original product warranty period.

[16] Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software applicable third-party software licenses may apply.

[17] SelectaDock III, PC Card Enabler, and/ or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 600

[18] SelectaDock III, PC Card Enabler, and/ or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 770.

[19] On ThinkPad 600, DVD drive supports standard CD-ROM and data-only DVD discs. DVD movie playback requires an optional third-party DVD PC Card adapter. DVD movie playback not supported with Windows NT.

[20] Lotus SmartSuite may be preinstalled or provided on CD-ROM depending on the model. Diskettes and hard copy documentation are available at an extra charge.

[21] The IBM ThinkPad 770X is designed to recognize up to 320MB of addressable memory with the new Mobile Pentium II processor at 300MHz. 64MB or 128MB of new, fast SDRAM SO DIMM system memory (RAM) is standard, depending on model. Current available memory options allow memory expansion up to 320MB using two 128MB SDRAM SO DIMMs in the two user accessible slots for memory expansion. On models with the 13.7-inch display, one of these slots is currently occupied with a 64MB SDRAM that provides the standard 128MB of system memory. This 64MB SDRAM would have to be removed and replaced with a 128MB SDRAM to achieve the 320MB maximum.

[22] These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[23] x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[24] Designed to be capable of receiving at up to 56kbps with x2 or V.90 compatible phone line and server equipment, and transmitting at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum.

[25] For ThinkPad 600 or 600E, to achieve 288MB memory configuration on models with 64MB standard, you need to replace one 32MB SDRAM SO DIMM in the memory slot with 128MB SDRAM SO DIMM and add a second 128MB SDRAM SO DIMM.

[26] Multiple monitor support gives you the ability to expand your ThinkPad desk-top area by attaching an external monitor or second display, allowing you to view two different applications running simultaneously. External device must support the same maximum resolution and refresh rate as that of the built-in notebook display. Available video memory may limit resolution and/ or color depth. Individual application support for this feature will vary.

[27] Software-supported MPEG-2 playback is supported on ThinkPad 770X and 770Z models with Windows 98. Software-supported MPEG-2 playback and support for video capture on Windows NT models requires the optional 'DVD and Enhanced Video Adapter'.

[28] For ThinkPad 770, IBM Wake on LAN support available via the optional SelectaBase 770 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For ThinkPad 600, IBM Wake on LAN support available via the optional SelectaBase 600 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For the ThinkPad 380Z, 390, 560Z, and 570, IBM Wake on LAN support available via the optional ThinkPad Port Replicator with Advanced EtherJet Feature.

[29] S.M.A.R.T. is defined as Self-Monitor-ing, Analysis and Reporting Technology.

[30] Response time varies. May exclude some holidays.

[31] ThinkPad EasyServ: customer calls 1-800-772-2227, courier service picks up ThinkPad system at most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, five business day average turnaround). Rapid Depot Repair (12-hour turnaround at depot from the time the machine arrives at the depot; three business day average turnaround) is standard for ThinkPad 600 and 770 systems in warranty and included for all ThinkPad systems as part of any mobile warranty upgrade. sent. Service levels are response objectives and are not guaranteed.

³² Onsite service: for customers who have purchased on-site service options, LCD screen replacements and other selected repair replacements may be completed at a Depot repair center at IBM's discretion. National on-site coverage is available for selected ThinkPad products 8 a.m. to 5 p.m., customer's time zone, Monday through Friday, excluding holidays, next business day response. Not available in Alaska, Hawaii, Montana, and Wyoming (depot repair service only). Available in selected locations in other states.

³³ Maximum memory varies depending on model, and may require replacement of standard memory with optional maximum memory module.

³⁴ On ThinkPad 770X and 770Z, software-supported DVD movie playback is supported with an optional DVD drive (standard on some models) and Windows 98. All other 770 models require the optional DVD and Enhanced Video Adapter and either Windows 95 or Windows 98 for DVD movie playback.

³⁵ SystemXtra is available to commercial and state and local government customers with valid credit. Program is subject to change without notice. Additional terms, conditions and limitations may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the US and other IBM subsidiaries and divisions worldwide.

³⁶ ThinkPad 390, 570 and 600: thickness may vary at certain points on the system.

³⁷ These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a K56Flex or V.90 compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

³⁸ DVD movie playback not supported with Windows NT.

³⁹ External device must support the same maximum resolution and refresh rate as that of the built-in notebook display.

These systems ship with an operating system.

As an ENERGY STAR Partner, the IBM Personal Systems Group has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

⁴⁰ Delivered with Windows 98 SE preloaded on the hard disk drive and a Windows 98SE Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

⁴¹ For the models with Intel SpeedStop technology, denotes maximum performance mode; battery optimization mode is a lower MHz speed.

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