

# Grandstream Networks, Inc.

# GXP2130/GXP2140/GXP2160/GXP2170/GXP2135

**Enterprise IP Phones** 

**User Guide** 







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Please do not use a different power adaptor with devices as it may cause damage to the products and void the manufacturer warranty.





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Grandstream GNU GPL related source code can be downloaded from Grandstream web site from: <u>http://www.grandstream.com/sites/default/files/Resources/gxp\_gpl\_color.tar.gz</u>





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## **DOCUMENT PURPOSE**

This document describes how to configure GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 features via phone's LCD menu and Web GUI menu. The intended audiences of this document are phone users. To learn the basic functions of GXP2130/GXP2140/GXP2160/GXP2170/GXP2135, please visit <a href="http://www.grandstream.com/support">http://www.grandstream.com/support</a> to download the latest "GXP2130 / GXP2140 / GXP2160 / GXP2170/GXP2160 / GXP2170/GXP2135.

This guide covers the following topics:

- Product Overview
- Installation
- Getting Started
- <u>Connecting to Devices</u>
- <u>Connecting GXP21XX to GDS3710 Door System</u>
- <u>Restore Factory Default Settings</u>
- Experiencing GXP21xx





## **GUI INTERFACE EXAMPLES**

http://www.grandstream.com/sites/default/files/Resources/gxp21xx web gui.zip

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- 7. Screenshots of Phonebook Pages





## **CHANGE LOG**

This section documents significant changes from previous versions of user manuals for GXP2130/GXP2140/GXP2160/GXP2170/GXP2135. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

#### Firmware version 1.0.11.16

• No major changes

#### Firmware version 1.0.11.10

• No major changes.

#### Firmware Version 1.0.11.6

• No major changes.

#### Firmware Version 1.0.11.3

• No major changes.

#### Firmware Version 1.0.11.2

- Added Support to accept Pvalue in string format for MPKs, Extension board and softkey mode configuration [Mode String]
- Added Support for Ukrainian language. [GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Technical Specifications]

#### Firmware Version 1.0.9.135

• No major changes.

#### Firmware Version 1.0.9.132

• No major changes.

#### Firmware Version 1.0.9.127

• Added Ability to press BLF key as forward destination [Call Forwarding Rules Enhancement]

#### Firmware Version 1.0.9.121

- Added support to disable/enable ringtone on headset [Receiving Calls]
- Added support to show both call session timer and hold duration timer on LCD during call hold [Call





Waiting/Call Hold]

- Added support to set only the same account in conference [Only Same Account in Conference]
- Added support to turn off LCD even if there is a missed call notification and flash MWI LED [Missed Calls Indication]
- Added support to park call real number [Virtual Multi-Purpose Keys]
- Added option to disable incoming call popup [Receiving Calls]
- Added support of exact match lookup method for LDAP search [Exact Match Search in LDAP]
- Added support to display or hide Diversion info [forwarding a call]
- Removed subscription then changing subscribe information [Virtual Multi-Purpose Keys]

#### Firmware Version 1.0.9.108

• No major changes.

#### Firmware Version 1.0.9.102

• Updated Korean LCD and web UI display translations. [Korean]

#### Firmware Version 1.0.9.96

- Added more character for password input from LCD
- Added support for Group Listening softkey [Group Listening]
- Added FTP support for provisioning and firmware upgrade [FTP/FTPS]
- Added Catalan Language support [GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Technical Specifications]
- Added option to enable/disable instant messages on LCD screen [Enable IM Popup]
- Added support to see how long a call has been on hold from the phone LCD [Call hold duration]
- Supported Mute function during dialing outgoing call phase [mute the call at dialing]
- Added login window to access Broadsoft XSI directory if set as login credential when credential is empty, or login failed [Broadsoft Login Window]

#### Firmware Version 1.0.9.71

• No major changes.

#### Firmware Version 1.0.9.69

• No major changes.

#### **Firmware Version 1.0.9.63**

- Added support for Password change upon initial login [Changing Default Password on First Boot]
- Added test strength of admin/user password [Test Password Strength]
- Added Authentication section in LCD menu [Authentication]





- Added confirmation for factory reset from the Keypad while booting [Confirmation for Factory Reset]
- Added support of display of Active VPK page [Active VPK Page]

#### Firmware Version 1.0.9.32

• No major changes.

#### Firmware Version 1.0.9.26

• No major changes.

#### Firmware Version 1.0.9.25

- Added support for hard keys reset [Restore to factory using hard keys]
- Added Shortcut HOLD+UP to factory functions page [Diagnosis]
- Added option to configure weather update settings from LCD menu [Weather Updates]
- Added exact search mode for contacts lookup in phonebook [Search a String with Exact Matching mode]
- Added virtual voicemail feature for BroadSoft [Virtual Voice Mail]
- Added support for error message popup [Error Message Indicator]
- Added ability to display original caller's ID for BLF call pick up calls. If user performs a BLF pickup, the phone will display the original caller's call ID instead of the extension's call ID [BLF- Call-pickup]
- Added "NewCall" softkey when on hold in Account Mode so that users do not need go back to the call to access NewCall softkey ["NewCall" softkey]

#### Firmware Version 1.0.8.53

• No major changes

#### Firmware Version 1.0.8.50

• No major changes

#### Firmware Version 1.0.8.49

- Added ability to search a string in any position using Quick search [Search a String using Quick Search]
- Added Date in the top panel on the phone LCD Screen [Date and Time]
- Added option to sort Broadsoft phonebook by Last/First Name [Sort Broadsoft Phonebook by Last/First Name]
- Added show GDS Open Door softkey as long as remote number matches [CONNECTING GXP21XX TO GDS3710 DOOR SYSTEM]





#### Firmware Version 1.0.8.47

No major changes

#### Firmware Version 1.0.8.46

- Added support for disabling predictive dial feature [Predictive Dialing]
- Added support for missing call indication popup window [Missed Calls Indication]
- Added the ability to hide picture icon on all screen if not set [Hide Profile Picture]
- Added softkey to show/hide VPK label in call screen [Show/Hide Label Support]
- Improved the layout for smaller LCD phones' call screen [Call Screen Improvement]
- Improved attended transfer feature [Call Transfer]
- Added VPK paging support inside call screen [VPK Paging Support inside Call Screen]
- Added support for Up/Down line switching when call screen is under active/overview state [Line Switching in Call Screen]
- Added transfer destination should display who the call was referred by [Call Transfer]
- Enhance Instant Message List page display to match the rest of the menu pages [Instant Messages]
- Added LINE key mode support, coexisted with legacy mode [Line Key Mode Support]
- Added Attended Transfer softkey (AttTrnf) when Blind Transfer is processed [Call Transfer]
- Added ability to take screenshots from the phone [Screenshots]
- Added DND Authorized Number (Whitelist) & Blacklist and other enhancement [Do Not Disturb]
- Improve Bluetooth handsfree device connecting process [Bluetooth]
- Added ability to filter characters from dialed numbers [Filter Characters from Dialed Numbers]
- Added ability to enable/disable local call forwarding rules without erasing configured numbers [Call Forwarding Rules Enhancement]

#### Firmware Version 1.0.7.97

- Added support for more keys (\* and #) as send key. [Completing Calls]
- Added ability to choose the dialing account to dial a contact from local phonebook. [Completing Calls]
- Added ability to use MPK to trigger a conference [Virtual Multi-Purpose Keys].
- Added ability to display mobile and home numbers when searching in local phonebook.
- Added option to enable Plantronics EHS headset ringtone [EHS Headset].

#### Firmware Version 1.0.7.81

- Added target softkey for dialing status [Call Transfer].
- Added target selection for transfer and conference in call screen [Call Transfer].
- Added Transfer destination should display who the call was referred by.
- Added support to accept P-value in string format for VPK mode configuration xml [P-Value for VPK Mode in String Format].
- Added predictive dialing using call history entries [Predictive Dialing from Call History].





- Added more numbers per contact and "Company"" Title"" Job" Field on the Phonebook [Multiple Numbers and Other Info for One Contact in Phonebook].
- Added Capability to allow DIAL softkey to dial the selected predictive dialing number under dialing state.
- Added pre-Dialing search to include Broadsoft directories [Predictive Dialing Search including Broadsoft Directories].
- Added search feature on Broadsoft directories [Exact Match Search in LDAP].

#### Firmware Version 1.0.7.25

- Added support to stop Screensaver when VPK is active.
- Improve Auto-provision for Vonage server.
- Change default Dial Plan to { x+ | \+x+ | \*x+ | \*xx\*x+ }.
- Added Conference CEI to support UCM conference change.
- Added support to display status detail on LCD screen when Ethernet not connected, account not register or configured.

#### Firmware Version 1.0.7.15

- Added support for Virtual Multi-Purpose Keys.
- Changed the default provisioning protocol to HTTPS.
- Added support for iLBC and G723.
- Added support to show programmable keys status on web UI.
- Added Blind and Attended Transfer softkey options.

#### **Firmware Version 1.0.6.9**

• For GXP2135 only.

#### **Firmware Version 1.0.6.2**

• For GXP2170 only.

#### Firmware Version 1.0.1.19

• Added GXP2130.

#### Firmware Version 1.0.0.17

• This is the initial version for GXP2140/GXP2160.





### **WELCOME**

Thank you for purchasing Grandstream GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Enterprise IP Phone. GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 is a state-of-the-art enterprise grade IP phone. GXP2170 features 12 dual-color line keys (can be digitally programmed as up to 48 provisionable BLF/fast-dial keys). GXP2135 features 8 dual-color line keys (can be programmed as up to 32 provisionable BLF/fast-dial keys). GXP2140/GXP2160/GXP2170 features 4.3 inch TFT Color LCD, 5 programmable context-sensitive softkeys, dual Gigabit network ports, integrated PoE and Bluetooth, 5-way conference, and Electronic Hook Switch (EHS). GXP2135 supports 2.8 inch TFT Color LCD, 4 programmable context-sensitive softkeys, 4-way voice conference and EHS with Plantronics headsets. GXP2130 supports 2.8 inch TFT Color LCD, 4 programmable context-sensitive softkeys, 4-way voice conference and EHS with Plantronics headsets. GXP2140, 6 lines for GXP2160, 12 lines for GXP2170, and 8 lines for GXP2135. The GXP2130 / GXP2140 / GXP2160 / GXP2170 / GXP2135 delivers superior HD audio quality, rich and leading-edge telephony features, personalized information and customizable application service, automated provisioning for easy deployment, advanced security protection for privacy, and broad interoperability with most 3rd party SIP devices and leading SIP/NGN/IMS platforms.

The GXP2130/GXP2160/GXP2170/GXP2135 supports presence and Busy Lamp Field (BLF) in the Multi-Purpose Keys as well. The GXP2140/GXP2170 is expandable with one to 4 expansion modules. The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 is the perfect choice for enterprise users looking for a high quality, feature rich multi-line executive IP phone with advanced functionalities and performance.





## **PRODUCT OVERVIEW**

#### **Feature Highlights**

The following tables contain the major features of GXP21xx.

#### 3 lines • 2.8 inch (320x240) TFT color LCD • 4 programmable softkeys • **GXP2130** Bluetooth V2.1 (GXP2130v2 only) • 8 programmable Multi-Purpose Keys 4-way conference 4 lines . 4.3 inch (480x272) TFT color LCD 5 programmable softkeys ٠ **GXP2140** Bluetooth V2.1 5-way conference • Expansion board • 6 lines • 4.3 inch (480x272) TFT color LCD 5 programmable softkeys . GXP2160 Bluetooth V2.1 • 5-way conference 24 programmable Multi-Purpose Keys • • 12 dual-color line keys that can be digitally programmed as up to 48 provisionable BLF/fast-dial keys 4.3 inch (480x272) TFT color LCD ٠ **GXP2170** 5 programmable softkeys Bluetooth V2.1 • 5-way conference Expansion board •









 8 dual-color line keys that can be digitally programmed as up to 32 provisionable BLF/fastdial keys

- 2.8 inch (320x240) TFT color LCD
- 4 programmable softkeys
- Bluetooth V2.1
- 4-way conference

#### Table 2: GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Comparison Guide

Features	GXP2130	GXP2140	GXP2160	GXP2170	GXP2135
LCD Display	320x240	480 x 272	480 x 272	480 x 272	320x240
LCD Backlight	Yes	Yes	Yes	Yes	Yes
Number of Lines	3	4	6	12	8
Programmable Hard Keys	8	N/A	24	48	32
Programmable Softkeys	4	5	5	5	4
Extension Module	N/A	Yes, up to 4 EXT Boards	N/A	Yes, up to 4 EXT Boards	N/A

#### GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Technical Specifications

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features, languages and upgrade/provisioning settings for the GXP21xx series.

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, FTP/FTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE
Graphic Display	2.8 inch (320x240) TFT color LCD
Bluetooth	Yes, Bluetooth V2.1 (GXP2130v2 only, GXP2130v1 does not support Bluetooth)

#### Table 3: GXP2130 Technical Specifications





Feature Keys	3 line keys with up to 3 SIP accounts, 8 speed-dial/BLF extension keys with dual- color LED, 4 programmable contexts sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME -
Voice Codec	Support for G.729A/B, G.711 $\mu/a$ -law, G.726, G.722 (wide-band), and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets)
Telephony Features	Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call- appearance (SCA), bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over
Sample Applications	Weather, GMI available for advanced custom application development
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish , Catalan, Ukrainian
Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS/FTP/FTPS, mass provisioning using TR-069 or encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240 VAC; Output: +12VDC, 0.5A; Integrated Power-over-Ethernet (802.3af)
Physical	Dimension: 193mm (W) x 211mm (L) x 84.5 mm (H) Unit weight: 0.78kg Package weight: 1.3kg
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non-condensing)
Package Content	GXP2130 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide
Compliance	FCC Part15 Class B, EN55022 ClassB, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1, AS/NZS CISPR22 Class B





#### Table 4: GXP2140 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, FTP/FTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE
Graphic Display	4.3 inch (480x272) TFT color LCD
Bluetooth	Yes, Bluetooth V2.1
Feature Keys	4 line keys with up to 4 SIP accounts, 5 programmable contexts sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME -
Voice Codec	Support for G.723.1, G.729A/B, G.711 $\mu$ /a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB, extension module port
Telephony Features	Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call- appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over
Sample Applications	Weather, GMI available for advanced custom application development
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Extension Module	Yes, can power up to 4 GXP2200EXT modules which features a 128x384 graphic LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit.
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish , Catalan, Ukrainian
Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS, FTP/FTPS, mass provisioning using TR-069 or encrypted XML configuration file





Power & Green Energy Efficiency	Universal power adapter included: Input:100-240 VAC; Output: +12VDC, 1.0A; Integrated Power-over-Ethernet (802.3af). Max power consumption 6W (without GXP2200EXT), 10W (with 4 cascaded GXP2200EXTs)	
Physical	Dimension: 222mm (W) x 210mm (L) x 93mm (H); Unit weight: 0.98kg; Package weight: 1.55kg	
Temperature and Humidity	32-104°F / 0 ~ 40°C, 10-90% (non- condensing)	
Package Content	GXP2140 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide	
Compliance	FCC Part15 Class B, EN55022 ClassB, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1, AS/NZS CISPR22 Class B	

Table 5: GXP2160 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, FTP/FTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6	
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE	
Graphic Display	4.3 inch (480x272) TFT color LCD	
Bluetooth	Yes, Bluetooth V2.1	
Feature Keys	6 line keys with up to 6 SIP accounts, 24 speed-dial/BLF extension keys with dual- color LED, 5 programmable contexts sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME -	
Voice Codec	Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band), iLBC(pending) and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB	
Telephony	Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call- appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial	
S	plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over	
Sample Applications	Weather, GMI available for advanced custom application development	
HD audio	Yes, both on handset and full-duplex handsfree speakerphone	
Base Stand	Yes, allow 2 angle positions	
Wall Mountable	Yes	





QoS	Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS	
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control	
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish , Catalan, Ukrainian	
Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS/FTP/FTPS, mass provisioning using TR-069 or encrypted XML configuration file	
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240V; Output: +12V, 1.0A. Integrated Power-over-Ethernet (802.3af) Max power consumption: 6W	
Physical	Dimension: 222mm (W) x 210mm (L) x 93mm (H). Unit weight: 0.98kg; Package weight: 1.62kg	
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)	
Package Content	GXP2160 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide	
Compliance	FCC Part15 Class B, EN55022 ClassB, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1, AS/NZS CISPR22 Class B	

#### Table 6: GXP2170 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, FTP/FTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6	
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE	
Graphic Display	4.3 inch (480x272) TFT color LCD	
Bluetooth	Yes, Bluetooth V2.1	
Feature Keys	12 line keys with up to 6 SIP accounts or 48 provisionable BLF/fast-dial keys, 5 programmable contexts sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME -	
Voice Codec	Codec Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band), in-band and our of-band DTMF (in audio, RFC2833, SIP INFO)	





Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB, extension module port	
Telephony Features	Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call- appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over	
Sample Applications	Weather, GMI available for advanced custom application development	
HD audio	Yes, both on handset and full-duplex handsfree speakerphone	
Extension Module	Yes, can power up to 4 GXP2200EXT modules which features a 128x384 graphic LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit.	
Base Stand / Wall Mountable	Yes, allow 2 angle positions	
QoS	Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS	
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control	
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish, Catalan, Ukrainian	
Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS/FTP/FTPS, mass provisioning using TR-069 or encrypted XML configuration file	
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240V; Output: +12V, 1.0A; Integrated Power-over-Ethernet (802.3af) Max power consumption: 5.4W (without GXP2200EXT) or 9.2W (with 4 cascaded GXP2200EXTs)	
Physical	Dimension: 228mm (W) x 206mm (L) x 46.5mm (H). Unit weight: 0.98kg Package weight: 1.55kg	
Temperature and Humidity	0 ~ 40°C (32 ~ 104°F) 10 ~ 90% (non-condensing)	
Package Content	GXP2170 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide	
Compliance	FCC Part 15 (CFR 47) Class B; EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN 60950-1, EN62479, AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, RoHS; UL 60950 (power adapter)	





#### Table 7: GXP2135 Technical Specifications

	Table 7. GAP 2100 Technical Opecincations	
Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, FTP/FTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6	
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE	
Graphic Display	2.8 inch (320x240) TFT color LCD	
Bluetooth	Yes, Bluetooth V2.1	
Feature Keys	8 line keys with up to 4 SIP accounts or 32 provisionable BLF/fast-dial keys, 4 programmable contexts sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME -	
Voice Codec	Support for G.729A/B, G.711 $\mu/a$ -law, G.726, G.722 (wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets)	
Telephony Features	Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call- appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over	
Sample Applications	Weather, GMI available for advanced custom application development	
HD audio	Yes, both on handset and full-duplex handsfree speakerphone	
Base Stand / Wall Mountable	Yes, allow 2 angle positions	
QoS	Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS	
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control	
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish , Catalan, Ukrainian	
Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS/FTP/FTPS, mass provisioning using TR-069 or encrypted XML configuration file	
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240VAC; Output: +12VDC, 0.5A; Integrated Power-over-Ethernet (802.3af) Max power consumption 3W	





Physical	Dimension: 228mm (W) x 206mm (L) x 46.5mm (H). Unit weight: 0.98kg Package weight: 1.55kg
Temperature and Humidity	0 ~ 40°C (32 ~ 104°F), 10 ~ 90% (non-condensing)
Package Content	GXP2135 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide
Compliance	FCC Part 15 (CFR 47) Class B; EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN 60950-1, EN62479, AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, RoHS; UL 60950 (power adapter)





### **INSTALLATION**

#### **Equipment Packaging**

Table 8: GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Equipment Packaging			
Main Case	Yes	1	
Handset	Yes	1	
Phone Cord	Yes	1	
Power Adaptor	Yes	1	
Ethernet Cable	Yes	1	
Phone Stand	Yes	1	
Wall Mount	Yes	1	
Quick Start Guide	Yes	1	

#### **Connecting Your Phone**

#### Table 9: GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Connectors

Handset Port	RJ9 handset connector port
Headset Port	RJ9 headset connector port (supporting EHS with Plantronics headset)
USB Port	USB port connecting a USB flash drive. (only on GXP2140/GXP2160/GXP2170)
LAN Port	10/100/1000Mbps RJ-45 port connecting to Ethernet
PC Port	10/100/1000Mbps RJ-45 port connecting to PC
EXT Port	RJ11 connector port to connect the GXP2200EXT Board (only on GXP2140/GXP2170)
Power Jack	12V DC Power connector port

To set up the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135, follow the steps below:

- 1. Attach the phone stand or wall mount to the back of the phone where there are slots.
- 2. Connect the handset and main phone case with the phone cord.
- 3. Connect the LAN port of the phone to the RJ45 socket of a hub/switch or a router (LAN side of the router) using the Ethernet cable.
- 4. Connect the 12V DC output plug to the power jack on the phone and plug the power adapter into an electrical outlet. If PoE switch is used in step 3, this step could be skipped.
- 5. The LCD will display provisioning or firmware upgrade information. Before continuing, please wait for the date/time display to show up.
- 6. Using the keypad configuration menu or phone's embedded web server (Web GUI) by entering the IP address in web browser, you can further configure the phone.





#### **GXP2200EXT Module**

The GXP2140/GXP2170 is expandable with GXP2200EXT modules. GXP2140/GXP2170 supports up to 4 extension modules, adding 160 fully programmable phone extensions to the phone.

GXP2200EXT board package contains:

Table 10: GXP2200Ext Packaging	
GXP2200EXT Main Case	Yes (1)
GXP2200EXT Stand	Yes (1)
RJ11-RJ11 Cable	Yes (1)
Connector Plate	Yes (1)
Screws	Yes (4)
Quick Installation Guide	Yes (1)

## ▲ Note:

The GXP2200EXT board is an additional accessory for the GXP2140/GXP2170 and is not included in the GXP2140/GXP2170 box.

To set up the GXP2200EXT board with the GXP2140/GXP2170, please follow the steps below:

- 1. On the back of the GXP2140/GXP2170 and the GXP2200EXT, there are slots for connector plate. Attach the connector plate between the slots for GXP2140/GXP2170 and the GXP2200EXT;
- 2. Apply the screws provided and securely tighten them in (See Figure 1: GXP2140/GXP2170 Back View with GXP2200EXT).
- Connect the GXP2200EXT board to the GXP2140/GXP2170 via EXT port using the RJ11-RJ11 cable provided;
- 4. Install the phone stand on the GXP2140/GXP2170 and the GXP2200EXT board;
- 5. Power up the GXP2140/GXP2170. The GXP2200EXT board will show the booting up screen with version information and connecting status;
- 6. After successfully booting up, the GXP2200EXT board will stay in idle. Press and hold the Left button for 3 to 5 seconds to check the version information and status.





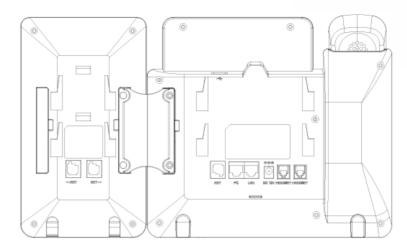


Figure 1: GXP2140/GXP2170 Back View with GXP2200EXT

The GXP2200EXT board can be configured via the web GUI of the GXP2140/GXP2170 connected. After successfully configured, press Left or Right button on the GXP2200EXT board and users could browse all the MPK's status in different pages.

For more information on installing, connecting and configuring the GXP2200EXT board with GXP2140/GXP2170, please refer to the GXP2200EXT board user manual : <u>http://www.grandstream.com/support</u>





#### **Safety Compliances**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 phone complies with FCC/CE and various safety standards. The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 power adapter is compliant with the UL standard. Use the universal power adapter provided with the GXP2130 / GXP2140 / GXP2160 / GXP2170/GXP2135 package only.

The manufacturer's warranty does not cover damages to the phone caused by unsupported power adapters.

#### Warranty

If the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 phone was purchased from a reseller, please contact the company where the phone was purchased for replacement, repair or refund. If the phone was purchased directly from Grandstream, contact the Grandstream Support for a RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy warranty policy without prior notification.

## Marning:

Use the power adapter provided with the phone. Do not use a different power adapter as this may damage the phone. This type of damage is not covered under warranty.





## **GETTING STARTED**

#### **Idle Screen**

GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 screen displays differently depending on whether the phone is idle or in use (active). The following figures show the idle screen of GXP2130 / GXP2140 / GXP2160 / GXP2170 / GXP2135.



Figure 2: GXP2130 Idle Screen



Figure 3: GXP2140 Idle Screen







Figure 4: GXP2160 Idle Screen



Figure 5: GXP2170 Idle Screen



Figure 6: GXP2135 Idle Screen

The following table describes the items displayed on GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 idle screen.





#### Table 11: LCD Display Definitions

	Table 11: LCD Display Definitions
Date and Time	Displays the current date and time. It can be synchronized with Internet time servers. <b>Note</b> : For GXP2135 and GXP2170, if there's no VPK configured with the first VPK on the right side of the LCD screen, users can display time and date on the top of the LCD screen (status bar) by enabling the option "Show Date On Status Bar" under Web GUI→ <b>Settings</b> → <b>Date and Time</b> .
Network icon	Shows the status of network. It will indicate whether the network is down or starting.
Status icon	Shows the status of the phone for registration status, call features etc. Using icons as shown in the next table.
Line status indicator	Displays the name of the account that is in use.
Softkeys in idle screen	<ul> <li>The softkeys are context sensitive and will change depending on the status of the phone. Typical functions assigned to softkeys are:</li> <li>SwitchSCR/NEXTSCR <ul> <li>Toggles between different idle screens. For example, for GXP2130/GXP2140/GXP2160/GXP2170/GXP2135, pressing most left softkey (switch screen) will toggle among default idle screen, weather information and Grandstream Upcoming Events;</li> <li>History <ul> <li>Shows up all the call history, including "All", "Answered Calls", "Dialed Calls", "Missed Calls", and "Transferred Calls".</li> </ul> </li> <li>ForwardAll <ul> <li>Unconditionally forwards the phone line (account 1) to another phone.</li> </ul> </li> <li>Redials the last dialed number when there is existed dialed call log.</li> </ul> </li> </ul>
Softkeys in call screen	<ul> <li>The softkeys are context sensitive and will change depending on the call status of the phone. Here are the main softkeys in call screen.</li> <li>Redial <ul> <li>Redial</li> <li>Redials the last dialed number after off hook when there is existed call log.</li> </ul> </li> <li>Dial <ul> <li>Dial bials the call out after off hook and entering the number.</li> </ul> </li> <li>Backspace <ul> <li>Delete the number before dialing out.</li> </ul> </li> <li>Answer <ul> <li>Answers the incoming call when the phone is ringing.</li> </ul> </li> <li>Forward <ul> <li>Forward the incoming call when the phone is ringing.</li> </ul> </li> </ul>





	EndCall
	Ends the active call.
	Transfer
	Transfer softkey will show up after pressing TRAN button and entering transfer
	target number. Press Transfer softkey to do blind transfer.
	• Split
	In attended transfer mode, after establishing the second call, press Split to quit
	transfer and go back to normal talking status.
	ConfCall
	Conferences the active calls.
	• ReConf
	Re-establish the conference among the calls on hold.
	Call Parking: Please refer to UCM6xxx Online User Manual for more information
	• CallPark
	When the phone dials out, the Call Park softkey will display on screen. To park
	the call, press the "CallPark" softkey and select a green MPK to park the call on
Special	available parking lot.
Softkeys	Features: On UCM, users need to enable "Keep-alive" option for the registered
(only when	account.
device	Features
integrated with	When enabled, Do Not Disturb, Call Forwarding and other call features can be
UCM6xxx)	used via the local feature codes on the phone. Otherwise, the provisioned feature
	codes from the server will be used. User configured feature codes will be used
	only if server provisioned feature codes are not provided. And once feature codes
	are configured, either via server provisioning or local setting, a softkey named

Table 12: GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 LCD Icons

"Features" will show on the LCD screen.

<b>Q</b> .4/ /*	<b>Network Status.</b> OFF - Network connection is up ON - Network connection is down
0	<b>DND Status.</b> OFF - Do Not Disturb disabled ON - Do Not Disturb enabled
<u>Co</u>	<b>Call Forward All Status.</b> OFF - Call Forward All feature disabled ON - Call Forward All feature enabled
	<b>Call Forward Busy Status.</b> OFF - Call Forward Busy feature disabled ON - Call Forward Busy feature enabled





<b>Call Forward No Answer Status.</b> OFF - Call Forward No Answer feature disabled ON - Call Forward No Answer feature enabled
Call Forward Busy and Call Forward No Answer Status. OFF - Call Forward All and Call Forward No Answer feature disabled ON - Call Forward All and Call Forward No Answer feature enabled
<b>Missed Call Status.</b> OFF - No missed call ON - New missed call
Handset Status. OFF - Handset is not in use ON - Handset is in use
<b>Headset Status.</b> OFF - Headset is not in use ON - Headset is in use
Microphone MUTE Status. OFF - No muted ON - Muted
Bluetooth Status. (GXP2130v2/GX2140/GXP2160/GXP2170/GXP2135) OFF - Bluetooth icon disappears ON - Bluetooth icon appears Paired – Bluetooth icon turns bright
USB Status. (GX2140/GXP2160/GXP2170) OFF - No USB connection ON - USB connected
Incoming Call. The current call is an incoming call
Outgoing Call. The current call is an outgoing call
<b>Call on Hold.</b> OFF - No call on hold ON – Call on hold
<b>Call Connect.</b> OFF - No call ON - Call connected





2	<b>Call Conference.</b> OFF - No Conference call ON - Conference call is established
9	<b>Click Hand</b> In call screen, this icon shows on the line available for transfer or conference.
6	IP Call Status The current call is an IP call.
	<b>SIP Call</b> Enter number for initiate call. The current call is a SIP call.
٥	<b>Call Time</b> During an active call, this icon shows the call time.
×	LCD Brightness Up Brightness is increasing
<u>*</u>	LCD Brightness Down Brightness is decreasing
<b>⊲</b> •))	Speaker Volume Up Call screen icon. Speaker volume is increasing
•	Speaker Volume Down Call screen icon. Speaker volume is decreasing
<b>(</b> ))	Handset Volume Up Call screen icon. Handset volume is increasing
¢	Handset Volume Down Call screen icon. Handset volume is decreasing
	<b>Ringtone Volume Down</b> Call screen icon. The volume of ringtone is decreasing
	<b>Ringtone Volume Up</b> Call screen icon. The volume of ringtone is increasing
Q	<b>Ringtone Volume Up</b> Call screen icon. The volume of ringtone is increasing
Q	<b>Ringtone Volume Down</b> Call screen icon. The volume of ringtone is decreasing
*	VOC status Call screen icon. OFF - VOC is off. ON - VOC is on.





## **Error Message Indicator**

When user changes configuration settings on LCD and the configuration cannot be applied for any reason, LCD screen will pop up a window displaying an error message with information explaining why the configuration couldn't be saved.

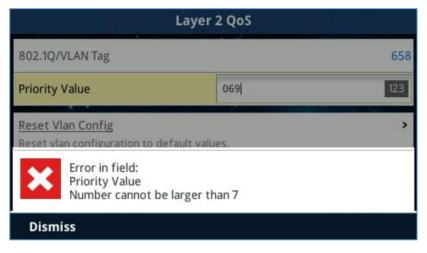


Figure 7: Error message Example

Note: Possible error types could be Security, Privilege, PValue Validation, etc

# Using the Keypad

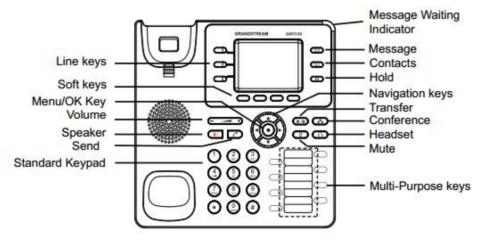
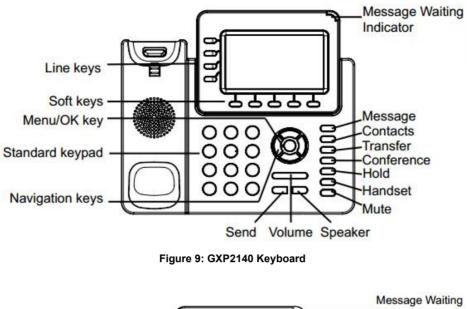
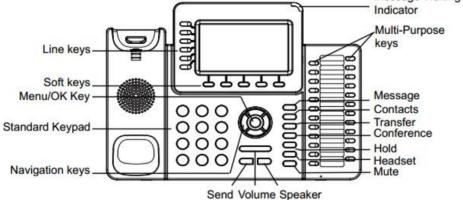


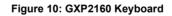
Figure 8: GXP2130 Keyboard











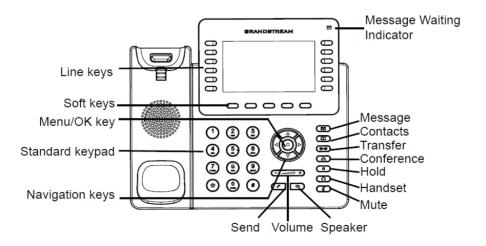
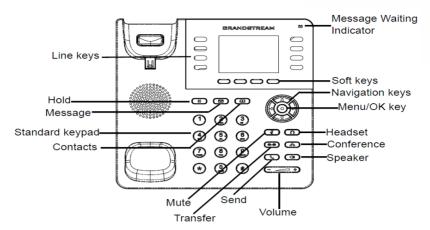


Figure 11: GXP2170 Keyboard









#### Table 13: GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Keypad Buttons

	Contacts. Press to view and edit contact information.
	Hold. Press to put call on hold or resume the call.
(f)	Mute. Press to mute or unmute the call.
$\bigcirc$	Headset. Press to switch to headset mode.
	Message. Press to view voicemail messages.
(2-2)	Transfer. Press to transfer call.
	Conference. Press to conference call.
	Speaker.
	Send/Redial.
( +)	Volume.
	Up Navigation key. In idle screen, press to see the IP.

## **Configuration via Keypad**

To configure the LCD menu using phone's keypad, follow the instructions below:

- Enter MENU options. When the phone is in idle, press the round MENU button to enter the configuration menu.
- Navigate in the menu options. Press the arrow keys up/down/left/right to navigate in the menu options.
- Enter/Confirm selection. Press the round MENU button or "Select" Softkey to enter the selected option.
- Exit. Press "Exit" Softkey to exit to the previous menu.





## • Return to Home page.

In the Main menu, press Home Softkey to return home screen.

In sub menu, press and hold "Exit" Softkey until Exit Softkey changes to Home Softkey, then release the Softkey.

- The phone automatically exits MENU mode with an incoming call, when the phone is off hook or the MENU mode if left idle for more than 60 seconds.
- When the phone is in idle, pressing the UP-navigation key can see phone's IP address, IP setting, MAC address and software address.

The MENU options are listed in the following table.

	-
Call History	Displays Local call logs: All Calls/Answered Calls/Dialed Calls/Missed Calls/Transferred Calls
Status	<ul> <li>Displays account status, network status, software version number and Hardware</li> <li>Account status.</li> <li>Network status.</li> <li>Press to enter the sub menu for MAC address, IP setting information (DHCP/Static IP/PPPoE), IPv4 address, IPv6 address, Subnet Mask, Gateway and DNS server.</li> <li>System Information</li> <li>Press to enter the sub menu for Hardware version, P/N number. Boot, Core, Base, Prog version and IP Geographic Information.</li> </ul>
Contacts	<ul> <li>Contacts sub menu includes the following options:</li> <li>Local Phonebook</li> <li>Local Group</li> <li>LDAP Directory</li> <li>Contacts sub menu is for Local Phonebook, Local Group, LDAP Directory and Broadsoft Phonebooks. User could configure phonebooks/groups/LDAP options here, download phonebook XML to the phone and search phonebook/LDAP directory.</li> </ul>
Messages	Message sub menu include the following options: <ul> <li>Instant Message</li> </ul> Displays received instant messages;

#### Table 14: Configuration Menu





### • Voice Mails

Displays voicemail message information in the format below: new messages/all messages (urgent messages/all urgent messages).

Preference sub menu includes the following options:

#### Do Not Disturb

Enables/disables Do Not Disturb on the phone.

#### Star Key Lock

Turns on/off keypad lock feature and configures keypad lock password. The default keypad lock password is null. If user enabled Star Key lock without configuring password, user can unlock keypad by holding \* key 4 seconds and pressing "OK" button.

#### • Sounds

• Ring Tone

Configures different ring tones for incoming call.

o Ring Volume

Adjusts ring volume by pressing left/right arrow key.

#### Appearance

## • Active LCD Brightness

Adjusts active LCD brightness by pressing left/right arrow key

## o Idle LCD Brightness

Adjusts idle LCD brightness by pressing left/right arrow key

## o Active LCD Timeout

Adjusts the minute of active backlight timeout.

## • Screensaver

Enables/Disables Screensaver

## o Screensaver Timeout

Configures the minutes of idle before the screensaver activates. Valid range is 3 to 6.

## Language and Input

## o Display Language

Selects the language to be displayed on the phone's LCD. Users could select Automatic for local language based on IP location if available. By default, it is Auto.



Preference



	o Default Input Selection						
	Selects the Input mode from <b>Multi-Tap</b> (default) and <b>Shiftable</b> .						
	<b>Multi-Tap</b> : User may tap the same key multiple times to switch to the desired character.						
	<b>Shiftable</b> : After pressing the number button, user will see the IDs of the characters that matching to the button. User can select the desired character by entering the corresponding ID on keypad.						
	Date Time						
	<ul> <li>Allow DHCP Option 42 to override NTP server</li> </ul>						
	<ul> <li>Allow DHCP Option 2 to override Time Zone setting</li> </ul>						
	<ul> <li>Time Settings It is used to configure date and time on the phone.</li> </ul>						
	- Search Mede						
	• Search Mode Specifies the phonebook search mode to QuickMatch or ExactMatch. By						
	default, it is <b>QuickMatch</b> .						
	<ul><li>Phone sub menu includes the following options:</li><li>SIP</li></ul>						
Phone	Configures SIP Proxy, Outbound Proxy, SIP User ID, SIP Auth ID, SIP Password SIP Transport and Audio information to register SIP account on the phone.						
	Call Features						
	Configures call forward features for Forward All, Forward Busy, Forward No Answer and No Answer Timeout.						
	System sub menu includes the following options:						
	Network						
	○ IP Setting						
	Selects IP mode (DHCP/Static IP/PPPoE); Configures PPPoE account ID and password; Configures static IP address, Netmask, Gateway, DNS Server 1 and DNS Server 2.						
System	o <b>802.1X</b>						
	Enables/Disables 802.1X mode; Configures 802.1x identity and MD5 password.						
	○ Layer 2 QoS						
	Configures 802.1Q/VLAN Tag and priority value. Select "Reset VLAN Config" to reset VLAN configuration.						





#### Bluetooth Settings (GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135)

#### o Bluetooth Status

Displays the status of Bluetooth

o Bluetooth MAC

Displays the GXP phone's MAC address

• Power

Turns on/off the Bluetooth feature.

#### o Handsfree Mode

Enables/Disables Handsfree mode

## o Bluetooth Name

Specifies GXP phone name when discovered by other Bluetooth devices.

## o Start Scan

Starts to scan other Bluetooth devices around the phone. If found, user could press "Pair" Softkey, and enter Pin code to pair to other Bluetooth devices.

#### Upgrade

#### o Firmware Server

Configures firmware server for upgrading the phone.

## o Config Server

Configures config server for provisioning the phone.

#### o Upgrade Via

Specifies upgrade/provisioning via TFTP/HTTP/HTTPS/FTP/FTPS.

### o Start Provision

Starts Provision immediately.

#### Language Download

- o Auto Language Download
- Language Download

#### Factory Functions

#### o Diagnostic Mode

All LEDs will light up. All keys' name will display in red on LCD screen before diagnosing. Press any key on the keypad to diagnose the key's





function. When done, the key's name will display in blue on LCD. Lift and put back the handset to exit diagnostic mode.

### o Audio Loopback

Speak to the phone using speaker/handset/headset. If you can hear your voice, your audio is working fine. Press "Exit" Softkey to exit audio loopback mode.

#### o LCD on/off

Selects this option to turn off LCD. Press any button to turn on LCD.

#### o LCD Diagnostic

Enters this option and press Left/Right Navigation key to do LCD Diagnostic. Press "Exit" Softkey to quit.

#### o Certificate Verification

This is used to validate certificate chain for the server's certificate.

#### UCM Detect

Detect/connect UCM server to process auto-provision. Manually input the IP and port of the UCM server phone wants to bind with; Or select from the available UCM server in network.

### Authentication

#### o Admin Password

This is used to change the admin password for Web UI access.

#### • End User Password

This is used to change end user password for Web UI access.

### • Settings

Turns on/off Test Password Strength feature. This will allow only passwords with some constraints to ensure better security.

#### • Operations

#### o Factory Reset

It is used to restore the phone to factory default settings.

Reboot

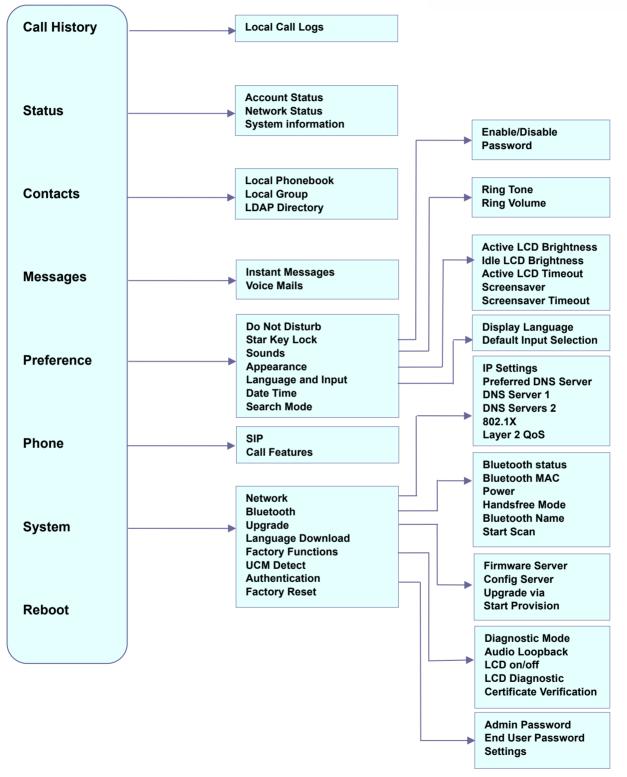
Reboots the phone.





The following picture shows the keypad MENU configuration flow:

### MENU







## **Characters Input**

The GXP21xx keypad can be used by tapping on an input field. GXP21xx keypad has 4 modes "123", "ABC", "abc" and "1Bc". Default mode is "1Bc". Note: If the input field is accepting only digits, only "123" mode will be available.

- "123" Mode: This mode allows to enter digits and . only.
- "ABC" Mode: This mode allows to enter capital letters, digits and symbolic characters.
- "abc" Mode: This mode allows to enter small letters, digits and symbolic characters.
- "1Bc" Mode: This mode allows to enter capital letters, small letters, digits and symbolic characters.

Following table describes allowed characters for each key.

Key	Description	Key	Description	Key	Description
1	1 Space . : / ' ` @ * + - = ,	2	2 A B C a b c	3	3 D E F d e f
	& ? ! % ( ) ~ _ < > { } [ ] ^				
4	4 G H I g h i	5	5 J K L j k I	6	6 M N O m n o
7	7 P Q R S p q r s	8	8 T U V t u v	9	9 W X Y Z w x y z
*	*	0	0	#	#

# **Making Phone Calls**

## Handset, Speaker and Headset Mode

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 allows users to switch among handset, speaker or headset when making calls. Press the Hook Switch to switch to handset; press the Headset button to switch

to headset; or press the Speaker button us to switch to speaker.

## **Multiple SIP Accounts and Lines**

GXP2160/GXP2170 can support up to 6 independent SIP accounts; GXP2140 can support up to 4 independent SIP accounts; GXP2130 can support up to 3 independent SIP accounts. Each account is capable of independent SIP server, user and NAT settings. Each of the line buttons is "virtually" mapped to an individual SIP account. In off hook state, select an idle line and the dial tone will be heard.

To make a call, select the line you wish to use. The corresponding LINE LED will light up in green. The user can switch lines before dialing any number by pressing the LINE buttons.

**For example**: If 2 independent accounts are registered on GXP2130 / GXP2140 / GXP2160 / GXP2170/GXP2135, when LINE 1 is pressed, the LINE 1 LED will light up in green. If LINE 2 is pressed, the LINE 2 LED will light up in green and the subsequent call will be made through SIP account 2.





Incoming calls to a specific account will attempt to use its corresponding LINE if it is not in use. When the "virtually" mapped line is in use, the phone will flash the other available LINE in red. A line is ACTIVE when it is in use and the corresponding LED is red.

## **Completing Calls**

There are several ways to complete a call.

- **On hook dialing.** Enter the number when the phone is on hook and then send out.
  - > When the phone is in idle, enter the number to be dialed out;
  - Take handset off hook, or Press Speaker button, or Press Headset button with headset plugged in, or Select an available LINE key.
  - The call will be dialed out.
- Off hook and dial. Off hook the phone, enter the number and send out.
  - Take handset off hook; or
    - Press Speaker button; or

Press Headset button with headset plugged in; or

Press an available LINE key to activate speaker;

- You shall hear dial tone after off hook;
- Enter the number;
- > Press SEND, \* or # keys to dial out.
- **Predictive dialing.** When dialing numbers, based on the entered digit or digits, the phone will predict and list the candidates of target number.

If the target number already saved in phonebook, when enter the first several digits, phone will display a list of the matched numbers. If the target number appears on the list, user could select the number by Up/Down key and dial out. GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 has predefined call feature code (the first digit is \*). When user enter \* as the first digit of target number, the phone will list all feature codes as candidates.

- **Redial.** Redial the last dialed number.
  - Take handset off hook; or
    - Press Speaker button; or

Press Headset button with headset plugged in; or

Press an available LINE key to activate speaker; or

- When the phone is in idle;
- > Press SEND key, or the REDIAL softkey.
- Via Call History. Dial the number logged in phone's call history.
  - > Press MENU button to bring up the main menu;
  - Enter Call History;
  - > Select the entry you would like to call using the navigation arrow keys;
  - > Press SEND button to dial out.





- Via Phonebook. Dial the number from the phonebook.
  - Press Contacts button;
  - > Under Contacts, enter Local Phonebook/ Broadsoft Phonebook using the navigation arrow key;
  - Select the contact you would like to call using the navigation arrow key;
     Note: Users can press on "Edit / Dial" to edit the phone number and choose one account to dial that number.
  - > Press SEND button to dial the selected contact.
- **Speed Dial from Line Key.** Dial the number configured as Speed Dial on Line Key.
  - ➢ Go to phone's Web GUI→Settings→Programmable Keys, configure the Line Key's Key Mode as Speed Dial. Select the account to dial from, enter the Name and User ID (the number to be dialed out) for the Line Key. Click on "Update" at the bottom of the Web GUI page;
  - > Off hook the phone, or directly press the Speed Dial key to dial out.
- Call Return. Dial the last answered call.
  - ➢ Go to phone's Web GUI→Settings→Programmable Keys, configure the Line Key's Key Mode as Call Return. Select the account to dial from, no Name or User ID must be set on for Call Return;
  - > Off hook the phone, or directly press the Call Return key to dial out.
- Via Paging/Intercom.
  - Take handset off hook; or
    - Press Speaker button; or
    - Press Headset button with headset plugged in or Press an available LINE key to activate speaker;
  - You shall hear dial tone after off hook;
  - > Press MENU button to switch the call screen from "Dialing" to "Paging";
  - Enter the number;
  - > Press SEND, \* or # keys to dial out.

## Notes:

- After entering the number, the phone waits for the No Key Entry Timeout (Default timeout is 4 seconds, configurable via Web GUI) before dialing out. Press SEND or # key to override the No Key Entry Timeout;
- If digits have been entered after handset is off hook, the SEND key will works as SEND instead of REDIAL;
- By default, # can be used as SEND to dial the number out. Users could disable it by setting "User # as Dial Key" to "No" from Web GUI→Account X→Call Settings.
- For Paging/Intercom, if the SIP Server/PBX supports the feature and has Paging/Intercom feature code set up already, users do not necessarily need toggle to paging mode in the call screen. Simply dial the feature code with extension as a normal call.
- When dial out via paging, user can see the "call-info" header contains "answer-after=0" and "the "alertinfo" header contains "info=alert-autoanswer;delay=0" in the outgoing INVITE.





- During an active call, user can see call info on LCD: **()** shows the call lasting time; **()** shows contact information if the number is already saved in phonebook. When dialing DTMF, user can press round OK button to switch to call info page.
- It is possible to mute the call at dialing stage by composing a number, dialing the call and pressing the mute button before the call is answered.

## Making Calls Using IP Addresses

Direct IP Call allows two phones to talk to each other in an ad-hoc fashion without a SIP proxy. VoIP calls can be made between two phones if:

- Both phones have public IP addresses; or
- Both phones are on the same LAN/VPN using private or public IP addresses; or
- Both phones can be connected through a router using public or private IP addresses (with necessary port forwarding or DMZ).

To make a direct IP call, please follow the steps below:

- When phone is at idle state, press any number key or \* key to bring up "Onhook Dialing" page;
- Press round menu key or "DirectIP" softkey;
- Input the target IP address (Please see example below);
- Press "OK" softkey to dial.

#### For example:

If the target IP address is 192.168.1.60 and the port is 5062 (i.e., 192.168.1.60:5062), input the following: 192\*168\*1\*60#5062. The \* key represents the dot (.), the # key represents colon (:). Wait for about 4 seconds and the phone will initiate the call.

#### Quick IP Call Mode:

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 also supports Quick IP Call mode. This enables the phone to make direct IP calls using only the last few digits (last octet) of the target phone's IP address. This is possible only if both phones are under the same LAN/VPN. This simulates a PBX function using the CSMA/CD without a SIP server. Controlled static IP usage is recommended.

To enable Quick IP Call Mode, go to phone's Web GUI $\rightarrow$ Settings $\rightarrow$ Call Features, set "Use Quick IP Call Mode" to "Yes". Clicking on "Save and Apply" on the bottom of Web GUI page to take the change. To make Quick IP Call, take the phone off hook first. Then dial #xxx where x is 0-9 and xxx<255. Press # or SEND and a direct IP call to aaa.bbb.ccc.XXX will be completed. "aaa.bbb.ccc" is from the local IP address regardless of subnet mask. The number #xx or #x are also valid. The leading 0 is not required (but it's OK).

#### For example:

- 192.168.0.2 calling 192.168.0.3 -- dial #3 followed by # or "SEND";
- 192.168.0.2 calling 192.168.0.23 -- dial #23 followed by # "SEND";





- 192.168.0.2 calling 192.168.0.123 -- dial #123 followed by # "SEND";
- 192.168.0.2: dial #3 and #03 and #003 results in the same call -- call 192.168.0.3.

### Note:

- The # will represent colon ":" in direct IP call rather than SEND key as in normal phone call;
- If you have a SIP server, configured, direct IP call still works. If you are using STUN, direct IP call will also use STUN;
- Configure the "User Random Port" to "No" when completing direct IP calls.

## Virtual Multi-Purpose Keys

#### Web UI Configuration

Users can find new Virtual Multi-Purpose Keys (VPK) configuration under phone's web UI→Settings→Programmable Keys→Virtual Multi-Purpose Keys tab. It is recommended to select "Reset" on this page before configuring VPK here. By default, all fixed VPKs are listed.

Order	Mode	Account	Description	Value	
1	LINE	1			Edit VPk
2	LINE	2			Edit VPk
3	LINE	3			Edit VPk
4	LINE	4			Edit VPk
5	LINE	5			Edit VPk
6	LINE	6			Edit VPk
7	None	1			Edit VPk
8	None	1			Edit VPk
9	None	1			Edit VPk
10	None	1			Edit VPk
11	None	1			Edit VPk
12	None	1			Edit VPk

#### Figure 14: VPK Page

Click on "Edit VPK" for the line (fixed VPK) you would like to configure. A new window will pop up for VPK configuration. Users can configure Mode, Account, Description and Value for the VPK. Up to 30 mode options can be selected for the VPK. Once done, press "Save" on this window and press "Save VPK" on the bottom of the Virtual Multi-Purpose Keys page again to apply the change.





Settings		Virtual N	/lulti-Purp	oose Ke	ys				
General Settings									
Broadsoft	÷	Order	Mode	Acc	count	Description	Value	Locked	
External Service		1	Default	1					Edit VPK
Call Features		2	Edit VPK					3	Edit VPK
Call History		3						0	Edit VPK
Multicast Paging		4		Mode	Default	,	·		Edit VPK
Outbound Notification	÷	5		Accounts	None Default				Edit VPK
Preferences	÷	6		Description	Shared Speed Dial				Edit VPK
Programmable	-	7		Value	Busy Lamp				Edit VPK
Keys Virtual Multi-		8		Locked	Presence W Eventlist BL	F			Edit VPK
Purpose Keys Settings		Add VPK	R		Speed Dial Dial DTMF	via Active Account			
ootango					Voice Mail Call Return				
Virtual Multi- Purpose Keys					Transfer Call Park			_	
					Monitored C	Call Park			
Softkeys Settings					Intercom LDAP Sear	ch			
Idle Screen					Conference Multicast Pa				
Softkeys					Record Call Log				
Call Screen					Call Log				
Softkeys									
Web Service									
XML Applications									

Figure 15: Edit VPK - Fixed VPK

If users would like to configure more VPKs than the ones displayed on the page, the users can click on "Add VPK" to configure dynamic VPK. The dynamic VPK supports up to 27 mode options.

Settings General Settings		Virtual N	/lulti-Purp	ose Ke	ys					
Broadsoft	÷									
External Service		Order	Mode	Acc	ount	Description		Value	Locked	
		1	Default	1						Edit VPK
		2	Default	2	_		-			Edit VPK
Call History		3	Add VPK					Lø		Edit VPK
Multicast Paging		4		Mode	a 1911					Edit VPK
Outbound Notification	÷	5			Speed Dial Speed Dial		•			Edit VPK
Preferences	÷	6		Accounts	Busy Lamp F				-	Edit VPK
Programmable	_	7		Description	Presence Wa Eventlist BLF					Edit VPK
Keys				Value	Speed Dial vi Dial DTMF	a Active Account			-	
Virtual Multi- Purpose Keys		8			Voice Mail					Edit VPK
Settings		Add VPK	2		Call Return Transfer		Π.			
Virtual Multi-					Call Park Monitored Ca	II Dark				
Purpose Keys					Intercom					
0-84					LDAP Search Conference	1				
Softkeys Settings					Multicast Pag	ing				
Idle Screen					Record Call Log					
Softkeys					Menu XML Applicat	lan				
Call Screen					Information	ION	•			
Softkeys										
Web Service										
XML Applications										
ANIE Applications										

Figure 16: Edit VPK - Dynamic VPK

Please note:

1. Dynamic VPK does not support LINE and Shared LINE mode. These two mode options are only available for fixed VPKs.





- 2. Dynamic VPK does not support NONE mode. If users do not need this VPK, click on "Edit VPK" for it and select "Delete" to remove this VPK.
- 3. All settings require user to click on "Save" on the prompted window and "Save VPK" button on the bottom of Virtual Multi-Purpose Keys page to take effect.

## P-Value for VPK Mode in String Format

Mode Name	Mode String	Mode P-Value
None	None	-1
Default	line	0
Shared Line	shared line	1
Speed Dial	speed dial	10
Busy Lamp Field	blf	11
Presence Watcher	presencewatcher	12
Eventlist BLF	eventlistblf	13
Speed Dial via Active Account	speeddialaa	14
Dial DTMF	dialdtmf	15
Voice Mail	voicemail	16
Call Return	callreturn	17
Transfer	transfer	18
Call Park	callpark	19
Intercom	intercom	20
LDAP search	Idapsearch	21
Conference	conference	22
Multicast Paging	multicastpaging	23
Record	record	24
Call Log	calllog	25
Monitored Call Park	monitoredcp	26
Menu	menu	27
XML Application	xmlapp	28
Information	information	29
Message	message	30
Forward	forward	31
Do Not Disturb	dnd	32
Redial	redial	33
Instant message	instantmessage	34

#### Table 15: VPK Modes in String Format





Multicast listen address	multicastlistenaddress	35
Keypad Lock	keypadlock	36

The string could be capital or lower-case letters, but there must be no "space" in between. For example, in the cfg.xml, "Transfer" or "transfer" is the same as "18", it will configure Virtual Multi-Purpose Key 3 as transfer mode.

Note: The string format is supported for MPK, extension board and softkey as well.

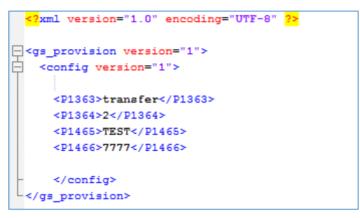


Figure 17: Line Key as Transfer Mode

## LCD Indication and Configuration

The configured fixed VPKs are displayed next to the corresponding line. If dynamic VPKs are configured, the users can see a page number shown on the upper left corner on the LCD.

The following figures show page 1 and page 2 of the VPKs on LCD. Pressing "RIGHT" arrow key or "Next" softkey will switch to the next page; pressing "LEFT" arrow key will switch back to the previous page.



Figure 18: VPK - LCD Indication

The users could also edit and add VPK from LCD.

1. To edit (fixed) VPK, press and hold the line key for about 4 seconds, a configuration window will pop up for the user to configure.





2. To add (dynamic) VPK, press and hold the RIGHT arrow key for about 4 seconds, a configuration window will pop up for the user to configure.

Up to 20 modes can be supported on fixed VPK and up to 17 modes can be supported on dynamic VPK. Each mode is indicated by a different icon on the LCD and the icon will be different when in different status.

Please find the icon indications below for different mode of VPK.

VPK Mode	State	lcon	LED Status
	Unregistered (No IM, Voice mail, No Call Forward)	2	OFF
	Registered + Idle (No IM, Voice mail, No Call Forward)		OFF
	Unregistered + IM + Voice mail	₩	OFF
	Registered + IM + Voice mail	<b>a</b>	OFF
	Unregistered + IM (No Voice mail)	2	OFF
	Registered + IM (No Voice mail)	8	OFF
LINE	Unregistered + Voice Mail (No IM)	<b></b>	OFF
	Registered + Voice Mail (No IM)	<b></b>	OFF
	Unregistered + Call Forward All (No IM, No Voice Mail)	(•	OFF
	Registered + Call Forward All (No IM, No Voice Mail)	(+	OFF
	Unregistered + Call Forward Delay + Call Forward Busy (No IM, No Voice Mail)	(¢	OFF
	Registered + Call Forward Delay + Call Forward Busy (No IM, No Voice Mail)	<b>€</b> ¢	OFF

### Table 16: VPK Modes Icon Indications





	Unregistered + Call Forward Delay (No IM, No Voice Mail, No Call Forward Busy)	(¢	OFF
	Registered + Call Forward Delay (No IM, No Voice Mail, No Call Forward Busy)	(¢	OFF
	Unregistered + Call Forward Busy (No IM, No Voice Mail, No Call Forward Delay)	(+	OFF
	Registered + Call Forward Busy (No IM, No Voice Mail, No Call Forward Delay)	(*	OFF
	Registered + Ringing	۲	Flashing RED
	Registered + On Hold	Ľ	Flashing GREEN
	Registered + Connected + Incoming Call	હ	GREEN
	Registered + Connected + Outgoing Call	۲	GREEN
	Unregistered	2	OFF
	Registered + Not support SCA Call-info header	G	OFF
	Registered + Not support SCA or SCA Failed	£	OFF
Shared Line	Registered + Idle	<u>.</u>	OFF
	Registered + Seized	£	RED(Alternate DUT)
	Registered + Processing	£	Flashing GREEN(Alternate DUT)
	Registered + Alert	2	Flashing RED





	Registered + Hold by user	5	Flashing GREEN
	Registered + Hold by the other party		Flashing RED
	Registered + Connected	5	GREEN
	Offline, Unknown	20	OFF
	Terminated	1	GREEN
BLF/	Proceeding	20	RED
Eventlist BLF	Ringing (Early)	4	Flashing RED
	Trying	<u>Le</u>	Flashing GREEN
	Confirmed		RED
Presence	Offline, Unknown	20	OFF
Watcher	Available	1	GREEN
	Unpair	<b>a</b> ×	OFF
Handsfree	Paired, but not connected	∎?	OFF
	Connected	<b>1</b>	OFF
Speed Dial	Account Unregistered	<b>G</b>	OFF
Speed Dial	Account Registered	G	OFF





Speed Dial Via Active Account		G	OFF
Dial DTMF			OFF
Call Return		ଓ	OFF
Transfer	Account Unregistered	<b>(</b> •	OFF
	Account Registered	(*	OFF
Call Park	Account Unregistered	0	OFF
	Account Registered	9	OFF
lu fa sa an	Account Unregistered	((•))	OFF
Intercom	Account Registered	((••))	OFF
LDAP Search		4	OFF
Multicast Paging		<u>.</u>	OFF
Record	Idle	REC	OFF
Record	Recording	REC	Flashing
Call Log		6	OFF
Menu		ß	OFF
Voice Mail	Account not registered	C	OFF





Account Registered (No new voice mail)	C	OFF
Account Registered (Have new voice mail)		OFF

Please note that no matter how each line is configured on the idle screen, all the lines in call screen will keep line or shared line displayed for the corresponding accounts. For example, even if the user has configured all lines as VPK (with non-LINE mode), he/she can still use the configured account to dial out by Offhook or pressing SPEAKER, HEADSET or any other unconfigured LINE key to go to call screen.



Figure 19: Dial Screen

When user is in call screen (during a call), he/she can press softkey



Figure 20: Making Call

When the user is in VPK screen during a call, he/she can press softkey is or corresponding line key to switch back to call screen.





Notes :

- If a call is parked via VPK call park, the display on the VPK will change between CID of the active call and the parking number.
- When changing the VPK information that requires subscription, the phone will perform unsubscribe first, then perform a new subscription. This way server will know that previous subscription has been void.

## **Predictive Dialing from Call History**

### Functionality

Phone search in call history entries, and if the entered digits match some call history entries, list of entries should be displayed with corresponding names.

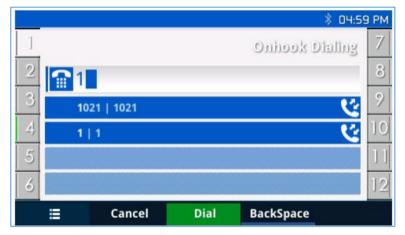


Figure 21: Predictive Dialing

## Predictive Dialing Search including Broadsoft Directories

## Web configuration

Users can configure Broadsoft XSI directories correctly from Web GUI under Settings  $\rightarrow$  Broadsoft  $\rightarrow$  Broadsoft Directories.





Settings		Broadsoft XS	SI	
General Settings				
Broadsoft	-	XSI		
Broadsoft XSI		Server		
Broadsoft IM&P		Port		
External Service				
Call Features		XSI Actions Path Broadsoft Contact D	aunload	
Call History		Interval	ownioad	0
Multicast Paging		XSI Authentication T	ype	Login Credentials ▼
Outbound Notification	\$	Login Credentials		
Preferences	÷	Login Username		
Programmable Keys	e()=	Login Password		
Extension Boards	-0-			
Web Service		SIP Credentials		
XML Applications		SIP UserName		
		SIP User ID		
		SIP Password		
		Sort Phonebook by		● Last Name © First Nam
		Network Directo	ries	
		Туре		Name
		Group Directory	Disabled	•
		Enterprise Directory	Disabled	•
		Group Common	Disabled	•
		Enterprise Common	Disabled	•
		Personal Directory	Disabled	•
		Missed Call Log	Disabled	•
			1	
		Placed Call Log	Disabled	•

Figure 22: Predictive Dialing - Search

## Functionality

Phone can predict possible contacts information from Broadsoft XSI directories when users dials a number. Users can select the predictive dialing number to dial out even complete number is not typed. Predictive numbers will be shown if Broadsoft XSI directory information is loaded after pressing the related number.





ŵ1					🕴 11:28 A
1 1	24	09991437			Dialing
2	1				
	1011	grandstrea	am 1011		<u>,</u>
3	1013	grandstrea	am 1013		, i
4	1111	grandstrea	am 1013		<u>,</u>
÷2	1015	i   grandstrea	am 1015		
≣		EndCall	Dial	BackSpace	
		EndCall	Dial		11.22 84
:≣ •01 ] ]	24	EndCall 109991437	Dial		) 11:32 ям Dialing
401 ] ]			Dial		Meteorem II
40)1	11	109991437			Meteorem II
•01	111 111	409991437 1			Dialing
<ul> <li>1</li> <li>2</li> <li>3</li> </ul>	111 111	109991437 1 1   grandstrea			Dialing
•)) 1 1 2	111 111	109991437 1 1   grandstrea			Dialing

Figure 23: Predictive Dialing from BS XSI Directories

## Multiple Numbers and Other Info for One Contact in Phonebook

### Functionality

User can add Phone type in phonebook.xml to add other phone type besides existing "Work","Home" and "Cell". Here is an example for the phonebook.xml:

<AddressBook> <Contact> <id>1</id> <FirstName>abc</FirstName> <LastName>def</LastName> <JobTitle>jobtitle</JobTitle> <Frequent>0</Frequent> <Phone type="type"> <phonenumber>4444</phonenumber> <accountindex>0</accountindex> </Phone> <Phone type="type"> <phonenumber>5555</phonenumber> <accountindex>0</accountindex> </Phone> <Phone type="Work"> <phonenumber>1111</phonenumber>





<accountindex>0</accountindex>
<phone type="Home"></phone>
<phonenumber>2222</phonenumber>
<accountindex>0</accountindex>
<phone type="Cell"></phone>
<phonenumber>3333</phonenumber>
<accountindex>0</accountindex>
<primary>1</primary>
<department>department</department>
<job>job</job>
<title>title</title>
<company>company</company>

On the display of the contact on LCD of the phone will shows as follows:

•		abc def	Þ
	abc def		
	jobtitle		
xixi			5555
haha			4444
Work			1111
Home			2222
÷	Edit/Dial	Dial	Edit

Figure 24: Local Phonebook - Contact Information

User can also input the "Company" "Title" "Job" filed through the phonebook.xml in the previous example or on the LCD of the phone like following example:

Local Phonebook				
First Name				
Last Name				
Title				
Favorite		No		
Company	I	1Bc		
Department	c	Save		

Figure 25: Local Phonebook - Company/Title/Job Fields





## Search a String using Quick Search

The quick search feature allows users to be able to search parts and strings of the entries and get the search result from it. For instance, if users only remember the first name, last name or parts of the name / phone number, they can use the string in the search bar as displayed on the following screenshots:

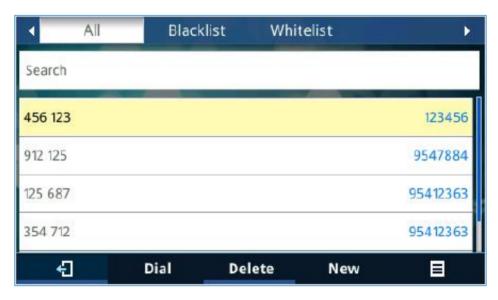


Figure 26: Before Search

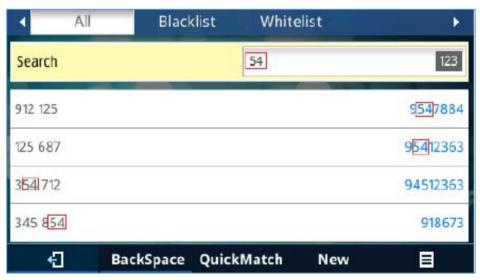


Figure 27: After Search

## Search a String with Exact Matching mode

Now the users can search their contacts using alphabets in the exact mode which allows them to find their contacts even if they forget the numbers. To perform this type of search, make sure that search type is set to Exact as shown on the following figure, then you can enter the exact name of the contact for lookup.





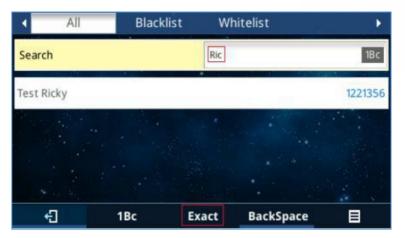


Figure 28: Exact Search Mode

## **Exact Match Search in LDAP**

#### **Functionality**

With LDAP Lookup Incoming call, outgoing call selected, the phone will perform LDAP search during incoming and outgoing call. If exact match search enabled, during the LDAP search, the phone will only get the result that matches the search input exactly. i.e. if 100 is the incoming/outgoing number only 100 will get searched, \*100\* will not. This option can be found under device web UI  $\rightarrow$  Phonebook  $\rightarrow$  LDAP. For further information, please refer to the admin guide.

## **Search in Broadsoft Directories**

## Functionality

User can search from the Broadsoft directories when the user input the search content in the search form.

d Gro	up Enterpr	ise GroupCom	EnterpriseC 🕨
Search		1	123
1026 grands	stream		1026
1029 1029			1029
Adam Smith	١,		1018
Auto Atten	dant auto-attendant		+13335551009
BS 1017 Gra	ndstream		1017
÷	QuickMatch	Download	

Figure 29: Search in Broadsoft Directories

The matching list will show as follows:





<ul> <li>Gro</li> </ul>	up Enterp	orise Group	oCom Ente	rpriseC 🕨
Search		1026		123
1026 grands	tream			1026
K				These of
			Jest	
			••••	0
Ð	QuickMatch	BackSpace	Download	

Figure 30: Search in Broadsoft Directories – Matching List

**Note:** If the "XSI Authentication" Type is set to "Login Credentials" and the credentials are left empty or the login failed, the phone will show the login window when users try to make a search on BroadSoft Phonebook.

Broadsoft XSI Login					
Username		iop1.broad	works.net 1Bc		
Password					
Remember N	/le		NO		
1. 1.	- 193 A	Selft Se			
÷	1Bc	ок			

Figure 31: Broadsoft Login Window

## Sort Broadsoft Phonebook by Last/First Name

Users can either search in Broadsoft phonebook by first / last name, phone number or extension number.





Group				
First Name		1	1Bc	
Last Name				
Number				
Extension				
	1			
Ð	Search	1Bc		

Figure 32: Sort Broadsoft Phonebook Entries

**Note**: Users can select the sorting style when performing search on LCD. This option can be found under device web UI  $\rightarrow$  Phonebook  $\rightarrow$  Phonebook Management.

## **Filter Characters from Dialed Numbers**

After downloading phonebook, when dialing a number from the contacts, the number may include special characters such as ",", "- ", or space in between numbers.

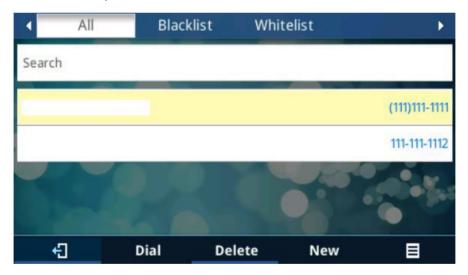


Figure 33: Contact Numbers With Special Characters

When pressing Dial softkey directly, the phone will filter out the special characters and make the calls send out properly.





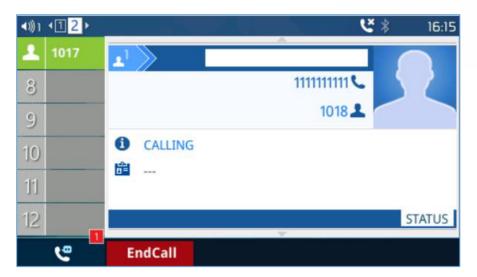


Figure 34: Call with Filtered Characters

## Show/Hide Label Support

Labels shown on the side of the LCD screen take space and in some cases narrow information displayed on the screen, using the "Show/Hide Label" users can hide the entire label to free up more space on the screen to see more display of either phone numbers or names.



The result should look like the following:

Figure 35: Show/Hidden Labels

## **Predictive Dialing**

This feature allows users to enable/disable predictive dialing, when it is disabled, user will not see and predictive number while dialing as shown in figures below.





		🕊 🕴 10:55 AM					🕊 🕴 10:59 AM
1001	<u>1</u> 1001	Onhook Dialing	1001	<u>•</u> <sup>1</sup> 1001		0	nhook Dialing
1001	100		1001	100			
1001	1000   John Doe	હ	1001				
1001	1000   Test 1 test		1001				
1001	1000   Test 1 test	<b>#</b>	1001				
1001	1000   Test 1 test		1001				
≡	DirectIP Cancel	BackSpace 📃	≡	DirectIP	Cancel	BackSpac	:e 🗏

Figure 36: Predictive Dialing

# **Hide Profile Picture**

When the contact picture is not set, the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 will remove the picture from the LCD screen to leave more space for the number and name displayed.

<b>∢</b> )) 2	<b>Č</b> 🖇 10:56 AM	< <u>1</u> 2≻	C 😵 06:17 PM
1013	<b>1</b> 024	5001	<b>1</b> 024
1013	1024 6	IVI	1024 📞
	1013 🚨 🧖 🔍		1013 🚨
1022	1 CALLING	4010	1 RINGING
	<b>a</b>		<b>a</b>
76029	STATUS	8451	STATUS
	EndCall HideLabel	≡	Answer Reject 🗏

Figure 37: Hide Profile Picture

# **Answering Phone Calls**

# **Receiving Calls**

• **Single incoming call**. Phone rings with selected ring tone. The corresponding LINE key will flash in red. Answer call by taking handset off hook, or using Speaker/Headset, or pressing flashing LINE key;

## Note:

- Users can choose when receiving a call to either ring from their headset, ring from both headset and the speaker, or only ring from the speaker. This option can be enabled from the Web GUI under Settings → Preferences → Audio Control and set "Always Ring Speaker".
- **Multiple incoming calls**. When another call comes in while having an active call, the phone will produce a Call Waiting tone (stutter tone). The other LINE key will flash in red. Answer the incoming call by pressing the flashing LINE key. The current active call will be put on hold automatically.

Note:





- When there is an ongoing call, users can disable incoming call notification pop up. This way users
  will not get disrupted by unexpected popup call but still get notified by the flashing line LED. This
  option can be enabled from the Web GUI under Settings → Call Features. For further information,
  please refer to the admin guide.
- Ring Group Call. If the phone is member of a Ring Group, when the SIP server receives a call to the Ring Group, all phone will start ringing, once a phone answers the call, a missed call notification will pop up on all phones. The GXP21XX Series support reason header, which allows the phones not to log a missed call if it is answered elsewhere. The following message will be included in the CANCEL SIP message received by the phone for notifying it that another user answers the call.

## Reason: SIP; cause=200;text="Call completed elsewhere"

## **Call Screen Improvement**

If a text contains more than one line, it will slide from right to left to display the full information without being cut, as shown on the figure below.



Figure 38: Text sliding

## **Group Listening**

Group Listening will give the users the ability to enable speaker sound while the handset/headset still in use. This option can be enabled from the Web GUI under **Settings**  $\rightarrow$  **Preferences**  $\rightarrow$  **Audio Control.** Users can press SpkOn softkey to activate the speaker sound or press SpkOff softkey to disactivate it.





<b>€</b> 3		*	07:17 AM
1001	<b>±</b> <sup>1</sup>	Dialing	
1001			
1001			
1001			
SpkOn	EndCall	HideLabel	Target

Figure 39: Group listening

## **Do Not Disturb**

Do Not Disturb can be enabled/disabled from phone's LCD by following the steps below:

- Press the Menu button and select "Preference" using navigation keys;
- Press Menu button again to get into Preference options;
- When "Do Not Disturb" is highlighted, press Left/Right key to disable/enable DND;
- Press "Save" softkey to save the change

Users could also enabled/disable DND quickly by pressing the Mute button, note also that mute button function can be set also to idle Mute, or be disabled under the web GUI option Settings  $\rightarrow$  Call features

## $\rightarrow$ Mute Key Function While Idle.

If the contact number belongs to Blacklist group, the call from this number will be blocked. If the contact number belongs to Whitelist group, when the phone is on DND mode, the call from whitelist number will be allowed.

This can be done from the web GUI or under "Phonebook > Contacts" by adding a user into either the "Blacklist" or "whitelist" as shown below.

Work	2000	all a	
Home			
Mobile			
Accounts	Auto 🔻		
Groups	🔲 Blacklist	🗷 White	elist

#### Figure 40: Black/White List

Or users can add a contact to "Blacklist" or "Whitelist" from the phone LCD under "Menu > Contact > Local Phonebook" as shown below.





	Loc	al Phonebook	
√ Work			
Home			
Mobile			
Account			Auto
Groups		K Whitelist	
÷	Uncheck		Save



## Call Waiting/Call Hold

- Call Waiting: This feature allows users to receive calls while they are already engaged on an ongoing conversation, in such a case the phone will start ringing OR a call waiting tone will be played if enabled from the web GUI under "Call Features" menu. After this the phone will pop up the waiting call and gives the user the choice to either accept or refuse the call, it can be configured from the web GUI → Account X → Call Settings → Call waiting or using the feature codes as mentioned on Call Features table.
- Hold. Place a call on hold by pressing the HOLD button. The active LINE key will blink in green and if configured under web GUI "Account X→ Call Settings → On Hold Reminder Tone", then a reminder tone will be played to notify the user that he has a call on hold.
- **Resume**. Resume call by pressing the blinking LINE key.
- **Multiple calls**. Automatically place active call on hold or switch between calls by pressing the LINE key. Call waiting tone (stutter tone) will be audible on new incoming call during the active call.
- **Call hold duration.** The phone will show the call hold duration as shown on figure below. The hold duration will be displayed only if there are two calls on hold or more and user can use the up/down arrows to check the hold duration of each call.

**Note**: Users can see how long their call has been hold if option "Show on Hold Duration" under Web GUI  $\rightarrow$  Settings  $\rightarrow$  Call Features is set to YES. Please refer to the admin guide for further detail.





		🖇 11:05 AM
1004	<b>U</b> 1004	00:00:20
	<b>U</b> 1002	
1002	1001	
1001		
Resume		HideLabel

Figure 42: Call Hold duration

#### Mute

During an active call, press the MUTE button to mute/unmute the microphone. The LCD will show the Mute icon on the top of screen, when the call is muted.

# **Call Transfer**

GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports Blind Transfer and Attended Transfer. This feature can be disabled from the web GUI menu under "**Settings**  $\rightarrow$  **Call features**  $\rightarrow$  **Disable Transfer**".

#### • Blind Transfer.

- > During the first active call, press TRANSFER and dial the number to transfer to;
- > Press SEND key or # to complete transfer of active call.
- Attended Transfer.
  - When set to "Static"
  - > During the first active call, press LINE key. The first call will be put on hold;
  - > Enter the number for the second call in the new line and establish the call;
  - Press TRANSFER;
  - > Press the other LINE key, which is on hold to transfer the call.
  - When set to "Dynamic"
  - Establish one call first;
  - During the call, press TRANSFER. A new line will be brought up and the first call will be automatically placed on hold;
  - > Dial the number and press SEND or # to make a second call. (Once the number is entered, a





"Transfer" soft key will show. If "Transfer" soft key is pressed instead of SEND or #, a blind transfer will be performed);

- > Press TRANSFER again. The call will be transferred.
- For Attended Transfer, after dialing out the number for the second call, a "Split" soft key will show. If the second call is not established yet (ringing), pressing "Split" will hang up the second call. If the second call is established (answered), pressing "Split" will resume the second call and keep the first call on hold.

#### Note:

• To transfer calls across SIP domains, SIP service providers must support transfer across SIP domains. When choosing "Dynamic", press Transfer softkey, you will enter this page:

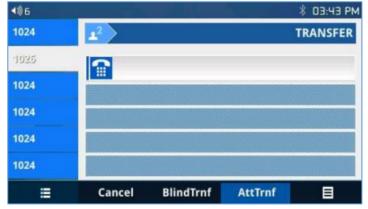


Figure 43: Dynamic Attended Transfer



Figure 44: Static Attended Transfer

#### - Call Transfer - Target Selection

Using the target selection feature, users can realize the following function:

- 1) Add a new softkey "Target" under transfer/conference action page.
- 2) When click on the softkey, it will take user to a target selection page in which user can choose other





possible transfer/conference targets (e.g. Local/BS Phonebook, Local/BS Call History, LDAP, Smart VPK List, or connected lines)

- 3) When accessing Local/BS Phonebook and Local/BS Call History page, the softkey will show limited options (e.g. Dial) when phone is under busy state to make it easier for user to perform the dialing task.
- 4) When accessing Smart VPK List, the phone will display the list of the VPK targets which are allowed to be used as the transfer/conference target based on the current account.
- 5) When accessing Line, the phone will list the lines which are available to be used for transfer/conference.

#### • Examples

a) Under Transfer/Conference screen

A new softkey "Target" is added under transfer/conference action page.



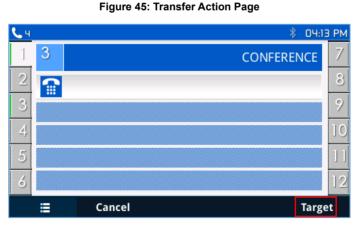


Figure 46: Conference Action Page

When clicking on the softkey, it will take user to a target selection page in which user can choose other possible transfer/conference targets.

b) Under target selection page screen

Target selection page provides a list of possible transfer/conference targets.





Target So	ırce
Local Phonebook	>
LDAP Directory	>
Local Call Log	>
Smart VPK Target	>
<u>Line</u>	,
Ð	Select

Figure 47: Target Source Page

User can use up/down key to select target from list and use menu key or "Select" softkey to choose the target. By selecting Local/Broadsoft Phonebook, Local/Broadsoft Call Log and LDAP Directory, LCD will display according menu page. Also, in these pages, softkey will show limited options (e.g. Dial) to make it easier for user to perform the dialing task.

•	All	Answered	Dialed	Missed 🕨
C 613				04:21 PM
<b>C</b> 613				04:20 PM
613				04:18 PM
613				04:17 PM
613				04:16 PM
613				04.15 PM
÷				Dial

Figure 48: Call History Page

By selecting "Smart VPK Target", a list of available VPK for transfer/conference will be shown as bellow. User can use up/down key or "select" softkey to choose item to use. Available VPK contains VPK with mode as below:

- Speed Dial (current account)
- Speed Dial via Active Account (any account)
- BLF or Eventlist BLF (current account)
- Presence (current account)

Specially, for BLF/Eventlist BLF/Presence, an icon with status will be shown on the left side of the item. Icon here contains 3 types based on monitoring state:

- Unknown: Question Mark
- Busy: RED
- Available: GREEN







Figure 49: Smart VPK Target Page

By selecting "line", a list of available line for transfer/conference will be shown as bellow. User can use up/down key or "select" softkey to choose item to use.



Figure 50: List of Available Lines Page

## - Transfer from Information

Using the transfer from information, users can see who transferred the call to them. Example shows below:





1	1013	1017
2	2076	1017 📞
3	8450	1018
4	1018	RINGING (Transferred From 1021)
5	1018	<b>ii</b>
6	1018	STATUS

Figure 51: Transfer from Information While Ringing and During Incoming Call

## **VPK Paging Support inside Call Screen**

Users can use their VPK mode preconfigured with while in call screen. Such as Speed Dial, BLF, dial DTMF..., as shown in the figure below.

<b>L</b> 3			<u>ب</u>	🖇 05:25 AM
1003	<u>•</u> 1 1003		Dialing	1002
2005				1003
1005				1001
1001				
1003				
1003				
E	EndCall	Redial		Target

Figure 52: VPK Paging

#### **Active VPK Page**

If active VPK page is enabled, when monitored BLF number is called, the screen will generate the VPK Page that shows which VPK key(s) is(are) active as below, where you can see the page number is a handset icon, which indicate that this page is an active VPK page. The original VPK pages are still navigable by pressing Next softkey

This option can be found under device web UI  $\rightarrow$  Settings  $\rightarrow$  Call Features  $\rightarrow$  Enable Active VPK Page.







Figure 53 : Active VPK Page

## **Outbound Notification**

The GXP2130/GXP2140/GXP2160/GXP2135/GXP2170 allows users to align the outbound notification with the call log change if the same account is registered in multiple phones.

## Line Switching in Call Screen

When having two lines (or more) active users will be able to switch between the calls by pressing up/down, arrow keys, this will allow users to manipulate calls through the phones arrow keys as shown on the figures below:



Figure 54: Line Switching

## Line Key Mode Support

Allow users to change between Line Mode and Account Mode.

In the "Line Mode", the amount of VPKs will be the amount of lines you can have, as shown below.





<b>∢</b> 0))1	< <mark>1</mark> 2≻				\$ 19:	23
1	1013	1		1021		
2	2076			1021		
3	8450			00:00:03 <b>O</b>		
4	651	<b>=</b>				
5	1018					
6	1018	50 PCMA		¥.	INF	0
	=	EndCall	Transfer	RecordOn	CallPark	¢

Figure 55: Line Mode

In the "Account Mode" the lines will be grouped by account so the VPKs could hold more lines in one accounts, as shown below.

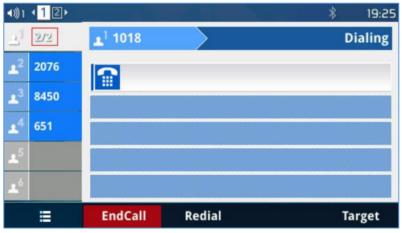


Figure 56: Account Mode

For example, with line mode, when the line is in use, by pressing the VPK, nothing is going to happen. In Account Mode, when the line is in use, by pressing the VPK, a new line will be initiated.

#### Note:

In "account mode", the phone adds the "NewCall" softkey and the user is able to make a second call directly using this softkey whether available or on hold.





<b>●</b> ))1	전문	* 11:51 AM			*	12:15 PM
<u>1</u> 171		1001	<b>९<u>म</u> 1001</b>	<b>U</b> 1001		
		1001 📞		5000		
<i>G</i> ; 1000		00:00:14 🛇	2			
<b>▲</b> <sup>3</sup>	<b></b>		3			
<b>⊥</b> <sup>4</sup>	50 PCMU	INFO	4			
EndCall	NewCall Transfer	HideLabel	Resume	NewCall	~	lideLabel

Figure 57: "NewCall" Softkey during the call and on Hold

#### 4-Way/ 5-Way Conferencing

GXP2130 can host up to 4-way conference call with other parties (PCMU/PCMA). GXP2140/GXP2160 /GXP2170/GXP2135 can host up to 5-way conference call. Users can disable/enable conference call feature from the web GUI of the phone under menu **Settings**  $\rightarrow$  **Call features**  $\rightarrow$  **Disable Conference**.

- Initiate a conference call.
  - > Establish calls with 2 or more parties respectively;
  - > While 1 call is active, the other call will be put on hold with its LINE key blinking in green;
  - Press CONF key;
  - > Press the desired LINE key on hold, the conference will be established;
  - > Repeat the previous 2 steps for all the other parties on hold to join the conference.
- Cancel Conference.
  - If after pressing the CONF key, the user decides not to conference, press Cancel softkey or the current active LINE key (LED in solid green);
  - > This will resume the 2-way conversation with the current line.
- Split and Re-conference.
  - During the conference, press HOLD key. The conference call will be split, and the calls will be put on hold separately with the LINE keys blinking in green;
  - > Select 1 LINE key and press to resume the 2-way conversation;
  - If users would like to re-establish conference call, before 1 separate LINE is selected, press the ReConf softkey right after the conference call is held/split;
- End Conference.
  - Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
  - > Users could press the EndCall softkey or simply hang up the call to terminate the conference call.

GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports **Easy Conference Mode**, which can be used combined with the traditional way to establish the conference.

- Initiate a conference call.
  - Establish 1 call;
  - > Press CONF key and a new line will be brought up using the same account;





- > Dial the number and press SEND key to establish the second call;
- > Press CONF key or press the ConfCall softkey to establish the conference.
- Join more parties in established conference call.
  - Establish conference call;
  - > Press CONF key and a new line will be brought up using the same account;
  - > Dial the number and press SEND key to establish the second call;
  - > Press CONF key or press the ConfCall softkey to join the new party in the established conference.

#### • Split and Re-conference.

- During the conference, press HOLD key. The conference call will be split and both calls will be put on hold separately with 2 LINE keys blinking in green;
- > Select 1 LINE key and press to resume the 2-way conversation;
- If users would like to re-establish conference call, before 1 separate LINE is selected, press the ReConf softkey right after the conference call is split.

#### • Cancel Conference.

- If user decides not to conference after establishing the second call, press EndCall softkey instead of the ConfCall softkey/CONF key;
- > This will end the second call and the screen will show the first call on hold.

#### • End Conference.

- Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
- > Users could press the EndCall softkey or simply hang up the call to terminate the conference call.

#### Notes:

- The party that starts the conference call must remain in the conference for its entire duration, you can put the party on mute, but it must remain in the conversation. In addition, this is not applicable when the feature "Transfer on Conference Hang-up" is turned on.
- The option "Disable Conference" must be set to "No" to establish conference.

#### **Only Same Account in Conference**

Now users can limit the ability for the phone to cross conferencing different accounts. This option can be found under device web UI  $\rightarrow$  Settings  $\rightarrow$  Call Features. For further information, please refer to admin guide.

#### **Conference Event Indicator (CEI)**

#### • Regular Conference Room

- If CEI is detected, there will be a new tab called "CEI" next to "INFO". Pressing the "Menu" hard key will switch between the tabs.
- > In the CEI tab, conference events will be shown chronologically (as shown below).







Figure 58: Conference Event Indicator

A "ConfRoom" softkey should also appear to access the list of conference room users (as shown below).

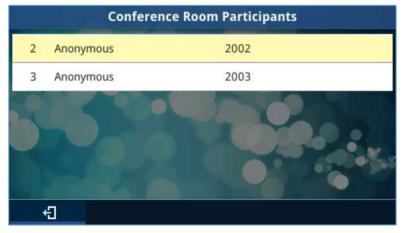


Figure 59: List of Conference Room Users

#### • Conference Room with User Invite Enabled

- If "Enable User Invite" is checked for a conference room, ALL users will have the ability to invite other users or bridge other conference rooms.
- The "ConfRoom" softkey will have a secondary action called "ConfMenu". Please hold softkey for a few seconds to use. A bottom line under the softkey name will usually indicate if a secondary action is available.





<b>√</b> ))1	ويحفظه المتعاقب والمتعا	🕴 04:56 AM
2003	L UCM Conferen	ice
2003	6300	C
2003	00:00:50	0
2003	🛕 Conference Room, Participants: 2/2	5
2003	Anonymous (2003) has joined	
2003	Anonymous (2002) has joined	CEI
≡	EndCall ConfRoom	HideLabel

Figure 60: ConfRoom Softkey

> The "ConfMenu" softkey will also be display in the conference room.



Figure 61: ConfMenu Softkey

> An example of the conference menu is shown below:









#### • Conference Room as an Admin

As an admin in a conference room, the admin may choose to kick and mute/unmute all users that is not another conference room or him/her-self. An admin will also have more options in the conference menu page such as lock/unlock.

#### • New Display Information

With UCM running firmware version 1.0.13.14 and beyond, new display information besides a user joining and leaving a conference room can now be displayed.

#### Mute/Unmute

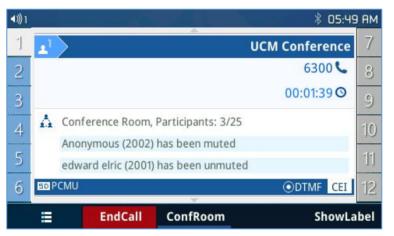


Figure 63: Mute/Unmute Conference

> Conference Bridge



Figure 64: Conference Bridge





### Conference Unbridge



Figure 65: Conference Unbridge

MCB Identification

	Conference Ro	om Participants
1	Anonymous	2002
2	Anonymous	2003
*	Multi-conference Bridge	6304
6304		
1	John Smith	1001
-22	Multi-conference Bridge	6300
*	Multi-conference Bridge ConfMenu	6300

Figure 66: Conference - MCB Identification

# Voice Messages (Message Waiting Indicator)

A blinking red MWI (Message Waiting Indicator) on the top right corner of the phone indicates a message is waiting. Meanwhile, a message box symbol will show in the front of the specific account. Dial into the voicemail box to retrieve the message by entering the voice mail number of the server or pressing the Voicemail button (Voice Mail User ID must be properly configured as the voice mail number under Web  $GUI \rightarrow Account X \rightarrow General Settings$ . An IVR will prompt the user through the process of message retrieval.

# **Virtual Voice Mail**

# Functionality

With this feature, phone downloads the voicemail into a .wav file and stores it on the phone for the user. Users don't have to dial feature codes and go to the BroadSoft server to listen to their voice mails. Also, users can pause/resume their voicemail message at any time they want.

Note: Currently this feature works with Broadsoft server.





#### **Shared Call Appearance (SCA)**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 phone supports shared call appearance by Broadsoft standard. This feature allows members of the SCA group to shared SIP lines and provides status monitoring (idle, active, progressing, hold) of the shared line. When there is, an incoming call designated for the SCA group, all the members of the group will be notified of an incoming call and will be able to answer the call from the phone with the SCA extension registered.

All the users that belong to the same SCA group will be notified by visual indicator when a user seizes the line and places an outgoing call, and all the users of this group will not be able to seize the line until the line goes back to an idle state or when the call is placed on hold (except for when multiple call appearances are enabled on the server side).

In the middle of the conversation, there are two types of hold: Public Hold and Private Hold. When a member of the group places the call on public hold, the other users of the SCA group will be notified of this by the red-flashing button and they will be able to resume the call from their phone by pressing the line button. However, if this call is placed on private-hold, no other member of the SCA group will be able to resume that call.

To enable shared call appearance, the user would need to register the shared line account on the phone. In addition, they would need to navigate to "Settings"  $\rightarrow$  "Programmable Keys" on the web UI and set the line key mode as "Shared Line". If the user requires more shared call appearances, the user can configure multiple line buttons to be "shared line" buttons associated with the account.

#### **Call Forwarding Rules Enhancement**

• Users can access their call forwarding from the phone without erasing the configured numbers. On the phone, you can access through "Menu→phone→Call Features→Account X" When disabled the LCD screen will look like the following figure.



Figure 67: Disabled Call Forward

When the feature is enabled, the phone's LCD screen will show the following figure.



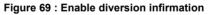


	Call Fea	tures: Acc	ount 1	
Forward Al	I	1021		123
Forward Bi	ysy			1021
Forward No	o Answer			1021
No Answer Tir	meout			20
1				
÷	Disable	123	BackSpace	Save

Figure 68: Enable Call Forward

When forwarding a call, the recipient will display a "diverted from" message if the option "Enable diversion information display" is set to "Yes" which can be found under web GUI → Settings → Call Features. If user selects No, when phone receives a forwarded call, phone will not display the "diverted from" message. "Diverted From" message:

< <u>1</u> 2►			Ľ	\$ 02:45 PM
171	<b>1</b>		1075	172.18.31.210
1437			1075 📞	1075
50011			1025 💄	1075
		(Diverted From 1018)		702
	置			1011
			STATUS	1012
Answer	Reject	Forward		HideLabel



• A Call Forward using BLF can also be Performed by pressing the BLF key set on VPK or MPK as forward destination. You only need to Subscribe to a valid BLF and press Forward Key then the BLF key to perform the call forward.

# **Missed Calls Indication**

When users miss a call, the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 will show the notification on the LCD screen as shown below.







Figure 70: Missed Calls

**Note**: Users can set the phone to turn off LCD backlight while having a missed call. This option can be found under device web UI  $\rightarrow$  Settings  $\rightarrow$  Preferences  $\rightarrow$  LCD Display  $\rightarrow$  disable missed call backlight. If users want to have missed call notification, select yes, bug flash MWI LED so when missed call exist, MWI will not be deemed.

# **Dial Plan**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports alphanumeric characters in dial plan. Two cases can be set to handle alphanumeric characters in the dial plan.

• Capital X can be used to represent digits from 0-9, and letters a-z / A-Z.

For instance, if the following pattern is set on the dial plan {X123}, this mean that any string that start with a letter/digit followed by 123 will pass the dial plan check (F123, a123, 5123,).

• "\" character can be used to indicate a specific letter.

For instance, if users want to allow only one alphanumeric character, the dial plan should be like follow: {\t\e\s\t}, when users dial "test" it will pass the dial plan check.

# Screenshots

Users can take screenshots of the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 phones, by holding key **HOLD** and then pressing **MENU** key, the output will be shown on the phone webGUI under "Status  $\rightarrow$  System Info" as shown in the figure below.





Service Status			
gui	MEM:	31312	
phone	MEM:	17400	
Core Dump			
Core Dump	NORM	AL	
Screenshot			
20170104-044302.png	01/04/17 09:43:02	Download	
20170104-042351.png	01/04/17 09:23:51	Download	

Figure 71: Screenshots

Users need to click on "Download" to view the screenshot

# **Call Features**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports traditional and advanced telephony features including caller ID, caller ID with caller Name, call forward etc.

Table	17:	Call	Features

*30	<ul> <li>Block Caller ID (for all subsequent calls)</li> <li>Off hook the phone;</li> <li>Dial *30.</li> </ul>
*31	<ul> <li>Send Caller ID (for all subsequent calls)</li> <li>Off hook the phone;</li> <li>Dial *31.</li> </ul>
*50	<ul> <li>Disable Call Waiting</li> <li>Off hook the phone;</li> <li>Dial *50.</li> </ul>
*51	<ul> <li>Enable Call Waiting</li> <li>Off hook the phone;</li> <li>Dial *51.</li> </ul>





*67	<ul> <li>Call with Caller ID Blocked (per call)</li> <li>Off hook the phone;</li> <li>Dial *67 and then enter the number to dial out.</li> </ul>
*82	<ul> <li>Call with Caller ID Enabled (per call)</li> <li>Off hook the phone;</li> <li>Dial *82 and then enter the number to dial out.</li> </ul>
*70	<ul> <li>Call with Call Waiting Disable (per call)</li> <li>Off hook the phone;</li> <li>Dial *70 and then enter the number to dial out.</li> </ul>
*71	<ul> <li>Call with Call Waiting Enabled (per call)</li> <li>Off hook the phone;</li> <li>Dial *71 and then enter the number to dial out.</li> </ul>
*72	Unconditional Call Forward. To set up unconditional call forward: • Off hook the phone; • Dial *72 and then enter the number to forward the call; • Press OK softkey or SEND key.
*73	<ul> <li>Cancel Unconditional Call Forward. To cancel the unconditional call forward:</li> <li>Off hook the phone;</li> <li>Dial *73;</li> <li>Hang up the call.</li> </ul>
*90	<ul> <li>Busy Call Forward. To set up busy call forward:</li> <li>Off hook the phone;</li> <li>Dial *90 and then enter the number to forward the call;</li> <li>Press OK softkey or SEND key.</li> </ul>
*91	<ul> <li>Cancel Busy Call Forward. To cancel the busy call forward:</li> <li>Off hook the phone;</li> <li>Dial *91;</li> <li>Hang up the call.</li> </ul>
*92	<ul><li>Delayed Call Forward. To set up delayed call forward:</li><li>Off hook the phone;</li></ul>





	• Dial *92 and then enter the number to forward the call;
	Press OK softkey or SEND key.
	Cancel Delayed Call Forward. To cancel the delayed call forward:
*93	Off hook the phone;
55	• Dial *93;
	Hang up the call.

# **Changing Default Password on First Boot**

When accessing the GXP2130/2140/2160/2170/2135 for the first time or after factory reset, users will be asked to change the default administrator password before accessing GXP21xx Web interface. The new password field is case sensitive with a maximum length of 25 characters. Using strong password including letters, digits and special characters is recommended for better security.

	y using the default password to log our password setting to access web	
Current Password		
New Password		
Confirm Password		

Figure 72: Change Password on first boot

# Diagnosis

Users could access factory functions menu in order to diagnosis the phone's hardware/software. To do so please access to LDC menu under "**System**->**Factory Functions**" or use the shortcut by pressing at the same time the Hold Key and the Up-arrow key.





Factory Functions	
Diagnostic Mode	>
Audio Loopback	>
LCD on/off	>
LCD Diagnostic	>
Certificate Verification	>
*	Select

Figure 73: Factory Functions

These tools can be used to check the hardware and software status of the phone like verifying the LED, keypad buttons, LCD and certificates verification ...etc.

# **Weather Updates**

GXP21XX IP phone series support weather updated and does display the related information on the LCD. Users could configure the weather updated settings by pressing the page navigation button (most left key under the LCD) and once reaching the weather page, you can press on "configure" softkey in order to configure the settings of weather update.

The following figures shows this feature.



Figure 74: Weather Update





Weather Update				
Enable Weather	r Update	< YES		<
Update Interva	I			15
Degree Unit				Auto
City Code				Auto
S.S.				
•	Save			

Figure 75: Weather Update Settings

#### Note:

The default setting for "City Code" is "Automatic" and the weather information will be obtained based on the IP location of the phone if available. Otherwise, select the "Self-defined city code" to manually choose the wanted city.

On "Self-defined city code", you can enter the zip code or the name of the city you want to show its weather information on the screen.

**Note:** By entering only the name of the city, the phone is going to choose the best match; for this reason, the city being displayed would have been mistaken. Example: in the case of entering "Dallas", the phone will not be able to know if the user means "Dallas, TX", "Dallas, NC" or "Dallas, Scotland", and it will select by default "Dallas, TX". It is better to specify than the name of the state/Country in the case of similar city names.

Weather Update			
Enable Weather Update	YES >		
Update Interval	15		
Degree Unit	Auto		
City Code	Self-Defined City Code		
Self-Defined City Code	Casablanca, Morocco		
🔒 Save			

Figure 76 : Weather Update City, Country





Weather Update		
Enable Weather Update	YES >	
Update Interval	15	
Degree Unit	Auto	
City Code	Self-Defined City Code	
Self-Defined City Code	92618	
🔒 Save		

Figure 77 : Weather Update Zip Code

# **Instant Messages**

The GXP2130/2140/2160/2170/2135 allows users to send instant messages not only through the phone

but also from the Web GUI, this can be done by clicking 🖄 on the top left of the web GUI, the following figure will show up to send messages to the specified number.

		<b>L</b> ⊗
Account 1 🔻		
	Send IM	
	Account 1 ▼	

Figure 78: Send Instant Message

<u>Note:</u> Users can choose either to get popup window on their LCD or not when receiving an instant message by enabling/disabling the "ENABLE IM POPUP" option from the **Web-UI**→**Settings**→**Call Features**→**Enable IM Popup.** 

# **Configuring Eventlist BLF**

Grandstream GXP2130/2140/2160/2170/2135 Enterprise IP Phones support both Grandstream UCM Busy Lamp Filed and Event List BLF features and allows end users, such as attendant, to monitor the call status of users in the list. GXP2130/2140/2160/2170/2135 supports this feature by sending out the subscription request to the UCM and changing the indicator status of the Line keys, MPKs, or virtual MPKs that associated with the monitored users.





Additionally, the phone is also able to display the original caller's call ID and to pick up the calls to the monitored extensions by using a pre-defined feature code called BLF- Call-pickup Prefix. For more details on Eventlist BLF configuration guide, please refer to:

http://www.grandstream.com/sites/default/files/Resources/GXP21x0\_Eventlist\_BLF\_Guide.pdf





# **CONNECTING TO DEVICES**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports EHS headset (Plantronics). GXP2140/2160 /GXP2170 is also capable to connect to USB and Bluetooth devices.

# **EHS Headset**

The GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 supports normal RJ11 headset and Plantronics EHS headset. To use Plantronics EHS headset, go to the GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 web GUI**→Settings→Audio Control**: Headset Type. Select "Plantronics EHS" and reboot the phone to take effect.

- Connect EHS Headset (Plantronics) to GXP2130/GXP2140/GXP2160/GXP2170/GXP2135. Insert headset connector into the RJ11 headset port on the back of GXP2130/GXP2140/GXP2160/GXP2170/GXP2135.
- 2. To use headset mode, press headset button on the GXP2130 / GXP2140 / GXP2160 /

GXP2170/GXP2135. A headset icon <sup>6</sup> will show on the GXP2130 / GXP2140 / GXP2160 / GXP2170 / GXP2135 status bar.

# Bluetooth

Bluetooth is a proprietary, open wireless technology standard for exchanging data over short distances from fixed and mobile devices, creating personal area networks with high levels of security. GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135 supports Bluetooth Class 2 of version 2.1. On GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135, users could connect to cellphones (supporting Bluetooth) via hands free mode or use Bluetooth headset for making calls.

To connect to a Bluetooth device, turn on GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135's Bluetooth radio first. The first time when using a new Bluetooth device with the GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135, "pair" the device with the phone so that both devices know how to connect securely to each other. After that, users could simply connect to a paired device. Turn off Bluetooth if it is not used.

Bluetooth related settings are under GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135's LCD Menu→System→Bluetooth.

Two ways of pairing a device to the GXP2130v2/GXP2140/GXP2160/GXP2170/GXP2135exists.

- If the phone sends out the pairing PIN, the user will need to enter this code using the keypad on the phone.





	Bluetooth S	Scan
	No Available I	tem
Devices	a all	
C 00:08:82		Unpaired
	ohone	be
		1Bc ed
Dismiss	ок	1Bc

Figure 79: Entering PIN Code

- If the phone generated the pairing PIN, it will be displayed on the LCD, the users need to input this PIN on the Bluetooth device to finish paring.

Bluetooth Scan	
No Available Item	
Devices	Ch.
phone phone	Pairing
Pair Request From: phone PIN 2526	
Dismiss	

Figure 80: Entering PIN Code 2

GXP2130v1 does not support Bluetooth, only GXP2130v2 supports Bluetooth on the phone, you could differentiate by P/N as well as by FCC ID.

For more details on Bluetooth features, please refer to:

http://www.grandstream.com/sites/default/files/Resources/GXP2130v2\_2140\_2160\_2135\_2170\_Bluetoot h\_User\_Guide.pdf

# USB Connection (GXP2140/GXP2160/GXP2170 Only)

GXP2140/GXP2160/GXP2170 is capable to connect to USB drive for importing wallpaper file and saving packets capture files. The basic and advance features about wallpaper application and packets capture are described in "GXP2130/GXP2140/GXP2160/GXP2170/GXP2135 Administration Guide".

Please visit <u>http://www.grandstream.com/support</u> to download the latest GXP2130 / GXP2140 / GXP2160 / GXP2170/GXP2135 Administration Guide".





# **CONNECTING GXP21XX TO GDS3710 DOOR SYSTEM**

The GXP21xx offers a powerful integration with GDS3710 Door System and allows users to remotely open the door, initiate call to the GDS3710 and get real time audio/video stream.

The GXP21xx can be connected with the GDS3710 in two different ways, either using peering mode (without a SIP server) or through a SIP server.

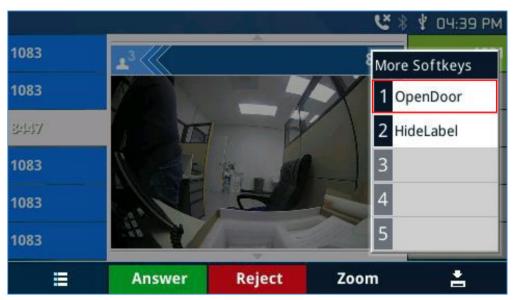


Figure 81: GDS3710 Video Stream and Open Door Softkey

#### For more details, refer to

http://www.grandstream.com/sites/default/files/Resources/Connecting\_GDS3710\_with\_GXP\_phones.pdf





# **RESTORE FACTORY DEFAULT SETTINGS**

# Marning:

Restoring the Factory Default Settings will delete all configuration information on the phone. Please backup or print all the settings before you restore to the factory default settings. Grandstream is not responsible for restoring lost parameters and cannot connect your device to your VoIP service provider.

There are two methods to perform factory reset on GXP21XX IP phone series which are described below.

# **Restore to factory using hard keys**

In order to perform hard reset of the phone using keypad buttons please follow below steps:

- 1. Power cycle the phone.
- 1. Wait till you see "booting".
- 2. When phone is "booting", press KEY 1 + Key 9 immediately and hold it until LCD factory reset message or if a password is required.
- 3. If it is required, enter the correct admin password to factory reset.

**Note:** The admin password will not be required to perform factory reset when the option "Configuration via Keypad menu" under web UI  $\rightarrow$  Maintenance  $\rightarrow$  Security is set to "Unrestricted", otherwise if it's set to "Basic Settings Only", or "Constraint Mode", or "Locked Mode", the admin password will be requested. If the password input is correct, phone will perform factory reset; if not, the phone will reboot without factory reset.

4. Factory reset is complete.

**Note:** When users try to factory reset from keypad while booting, the phone will prompt confirmation information to make sure the action (Press # to Factory Reset or \* to cancel). This will avoid people from accidentally reset the phone.







Figure 82 : Confirmation for Factory Reset

# **Restore to factory using LCD menu**

Please follow the instructions below to reset the phone:

- Press MENU button to bring up the keypad configuration menu.
- Select "System" and enter.
- Select "Operations Factory Reset".
- A warning window will pop out to make sure a reset is requested and confirmed.
   Press the "Yes" Softkey to confirm and the phone will reboot. To cancel the Reset, press "No" Softkey instead.





# **EXPERIENCING**

# GXP2130/GXP2140/GXP2160/GXP2170/GXP2135

Please visit our website: <u>http://www.grandstream.com</u> to receive the most up- to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our <u>product related documentation</u>, <u>FAQs</u> and <u>User and Developer Forum</u> for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all your questions. Contact a technical support member or <u>submit a trouble ticket online</u> to receive in-depth support.

Thank you again for purchasing Grandstream IP phone, it will be sure to bring convenience and color to both your business and personal life.

