



## GXP-2000 EXT Expansion Module



## GXP-2000 Enterprise IP Telephone



**GXP-2000EXT Expansion Module** features 56 fully programmable buttons (each with dual-color LED) when used with the GXP2000. The GXP-2000EXT is connected to and controlled by the GXP-2000 with a short connector cable. The GXP 2000 EXT creates up to 112 additional programmable extensions when 2 EXT are daisy chained with the GXP-2000. The GXP-2000 supports speed dialing, BLF (Busy Lamp Field), BLA (bridged line appearance) call transfer/forward/pickup on each of the programmable buttons on the GXP-2000EXT module.



**GXP-2000** is a next-generation enterprise SIP telephone that is feature rich, easy to use, supports Power-over-Ethernet and is competitively priced. It is ideal for small office and enterprise customers as well as service providers. The GXP-2000 is expandable, secure and easy to manage. It offers multiple lines, multiple SIP accounts, advanced functions, superior audio quality, and interoperability with most SIP end-user devices, IPPBX and Softswitches. The GXP-2000 received the prestigious "2006 Internet Telephony Excellence Award" and the "2005 Product of the Year" award from the Internet Telephony Magazine.

### Features

- **Open Standards Compatible** SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP, ARP, ICMP, DNS (A record and SRV), DHCP(both client and server), PPPoE, TFTP, NTP, TLS
- **Superb Audio Quality** Advanced Digital Signal Processing (DSP), silence suppression, VAD, CNG, AEC, AGC
- **Custom Ring-tone Software** Convert most music files to a custom ring-tone
- **Feature Rich** Standard voice features including caller ID, call waiting, hold, transfer, forward, Intercom, shared call appearances, mute, headset, autodial, off-hook dial, and click to dial
- **Advanced Functionality** Multi-line support, multi-party conferencing, line extensions, headset enabled, TLS & SRTP (pending), multi-language support (MLS) and XML enabled

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|---------------------------|---|
| <b>Lines</b>              | 4 direct lines with 7 speed dial keys, up to 11 line calls (expandable to 112 lines with 2 daisy-chained GXP-2000 Ext)  |
| <b>Protocol Support</b>   | Support SIP RFC3261, TCP/UDP/IP, PPPoE, RTP/RTCP, SRTP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP/SNTP, TFTP, TLS, SIMPLE/PRESENCE<br>Support up to 4 SIP accounts   |
|                           | Support for SIP PUBLISH method (RFC 3903), SIP Presence package (RFC 3856, 3863) for use of 7 MFks and GXP-2000EXT, SIP Dialog package (RFC 4235)<br>Support SIP MESSAGE method (RFC 3428) and up to 100 incoming IM messages   |
| <b>Display</b>            | 8 line x 22 character, 64 rows x 130 columns in pixels  |
| <b>Feature Keys</b>       | 8 dedicated keys: Message Button, Hold, Transfer, Conference, Speakerphone, Send, Mute/Del<br>5 display/menu navigation keys, dual color LEDS   |
| <b>Telephony Features</b> | Intuitive graphic user interface, downloadable phone book (XML, LDAP), multi-language support(MLS)<br>Support customizable LCD screen via downloadable XML by HTTP/TFTP<br>Dynamic negotiation of codec and voice payload length<br>G.723,1 (6.3K/5.4K), G.729A/B, G.711 $\mu$ /A, G.726 (40K/32K/24K), G.722 (wide-band), GSM and iLBC<br>Call hold, call transfer (attended/blind), do-not-disturb, call forwarding, mute<br>Redial, call log, and volume control<br>Caller ID display or block<br>Call waiting, call waiting caller ID<br>3-way conferencing<br>Voice mail indicator<br>Downloadable custom ring tones<br>In-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)<br>Silence suppression, VAD, CNG, side tone<br>Full duplex hands-free speakerphone with Acoustic Echo Cancellation (AEC) and AGC<br>Off-Hook Auto Dial, Auto Answer, Early Dial and Speed Dial<br>Adaptive jitter buffer control with packet delay and loss concealment |

|                                 |   |
|---------------------------------|---|
| <b>Network and Provisioning</b> | Via keypad/LCD, Web browser, or secure (AES encrypted) central configuration file<br>Support NAT traversal using STUN and symmetric RTP<br>Support static IP and DHCP<br>Support Layer 2 (IEEE 802.1p/Q VLAN tagging) and Layer 3 QoS (ToS, DiffServ) |
| <b>Firmware Upgrades</b>        | Support auto-provisioning via secure configuration file with authentication verification<br>Support NAT-friendly firmware upgrade via TFTP or HTTP<br>Allow user to specify different URL for configuration file and firmware files                   |
| <b>Advanced Server Features</b> | Support DNS SRV look-up and SIP server fail-over  |
| <b>Security</b>                 | DIGEST authentication using MD5/MD5-sess, SIP over TLS and SRTP (pending)<br>secure configuration file (AES)  |

### Hardware Specification

| Hardware                                | Specifications   |
|---|--|
| <b>Network Interfaces</b>               | Two RJ45 10/100 Mbps auto-sensing<br>Auto detect Ethernet polarity, allowing straight-through or twisted cable |
| <b>Power over Ethernet</b>              | Integrated (IEEE 802.3af)  |
| <b>Headset Jack</b>                     | 2.5mm Headset  |
| <b>LED</b>                              | 11 LEDs with different light patterns  |
| <b>Universal Switching Power Supply</b> | Input: 100-240VAC 50-60 Hz<br>Output: +5VDC, 1.2A, UL certified  |
| <b>Dimension (LxWxH)</b>                | 220mm x 215mm x 57mm   |
| <b>Weight</b>                           | 0.82kg (1.8lbs)  |
| <b>Temperature</b>                      | 32 - 104°F / 0 - 40°C  |
| <b>Humidity</b>                         | 10% - 90% (non-condensing)   |
| <b>Compliance</b>                       | FCC / CE / C -Tick   |

