

GXP-2000

Enterprise IP Telephone



Grandstream GXP-2000

is a next-generation enterprise SIP telephone that is feature rich, easy to use, supports Power-over-Ethernet and is competitively priced. The GXP-2000 is ideal for any business deploying an IP communication system. Expandable, secure and easy to manage, the GXP-2000 offers intuitive user interfaces, multiple lines, dual 10/100Mbps Ethernet ports, upgraded feature functionality, graphical LCD display, secure central configuration, superior audio quality, excellent manageability, and interoperability with most SIP end-user devices, IPPBX and Softswitches. The GXP-2000 is continually recognized as best in class by leading industry experts.

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| • 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 |
| • Network Interfaces | Dual 10/100Mbps Ethernet ports (switched or routed) |
| • Superb Audio Quality | Advanced Digital Signal Processing (DSP), silence suppression, VAD, CNG, 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, secure signaling & SRTP |
| • Cost-effective IP solution | Small to medium office IP phone less than \$120 |

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

Hardware Specification

Model	GXP-2000
Network Interfaces	2xRJ45 10/100Base-T, auto-sensing Auto detect Ethernet polarity, thus allowing either straight through or twist cable
Power over Ethernet	Integrated (IEEE 802.3af)
Headset Jack	3.5mm Headset
LED	11 LED with different light pattern in RED color
Universal Switching Power Supply	Input: 100-240VAC 50-60 Hz Output: +5VDC, 1.2A, UL certified
Dimension	215mm(w) x 220mm(d) x 57mm(h)
Weight	0.82kg (1.8lbs)
Temperature	40 - 130oF / 5 - 45oC
Humidity	10% - 90% (non-condensing)
Compliance	FCC / CE / C-Tick / A-Tick



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Lines	4 direct lines with 7 speed dial keys, up to 11 line calls (expandable to 112 lines with 2 daisy-chained GXP-2000 Ext)
Protocol Support	Support SIP RFC3261, TCP/UDP/IP, PPPoE, RTP/RTCP, SRTP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP/SNTP, TFTP, TLS, SIMPLE/PRESENCE
	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)
	Support for SIP MESSAGE method (RFC 3428); stores up to 100 incoming IM messages, after that new messages are dropped
Display	8 line x 22 character; 64 rows x 130 columns in pixels
Feature Keys	8 dedicated keys: Message Button, Hold, Transfer, Conference, Speakerphone, Send, Mute/Del
	5 display/menu navigation keys
Telephony Features	Intuitive graphic user interface, downloadable phone book (XML, LDAP)
	Support customizable idle screen via downloadable XML by HTTP/TFTP
	Dynamic negotiation of codec and voice payload length
	G.723,1 (6.3K/5.4K), G.729A/B, G.711 μ /A, G.726 (40K/32K/24K), G.722 (wide-band, pending), GSM and iLBC (pending)
	Call Hold, Call Transfer (attended/blind), Do-Not-Disturb, Call Forwarding, mute
	Redial, call log, and volume control
	Caller ID display or block
	Call waiting, call waiting caller ID
	3-way conferencing
	Voice mail indicator with indicator
	Downloadable Custom Ring-tones
	In-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
	Silence Suppression, VAD, CNG, side tone
	Full duplex hands-free speakerphone with Acoustic Echo Cancellation (AEC) and AGC
	Off-Hook Auto Dial, Auto Answer, Early Dial and Speed Dial
	Adaptive jitter buffer control, packet delay and loss concealment

GXP-2000 EXT Expansion Module



The GXP-2000EXT Expansion Module features 56 fully programmable buttons (each with dual-color LED) when used with GXP2000. GXP-2000EXT is connected to and controlled by the GXP-2000 via a short cable included with the package. Up to 2 GXP-2000EXT modules can be cascaded per GXP-2000, allowing up to 112 fully programmable phone extensions. The GXP-2000 supports speed dialing, BLF (Busy Lamp Field), call transfer/forward/pickup on each of the programmable buttons on the GXP-2000EXT module.

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