Grandstream
Innovative IP Voice & Video

GXP-2000 EXT
Expansion Module

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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

Feature	Description
• 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 apperances, 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

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 SIP MESSAGE method (RFC 3428) and up to 100 incoming IM messages
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, dual color LEDS
Telephony Features	Intuitive graphic user interface, downloadble phone book (XML, LDAP), muti-language support(MLS)
	Support customizable LCD 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), GSM and iLBC
	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
	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 with packet delay and loss concealment

Network and Provisioning	Via keypad/LCD, Web browser, or secure (AES encrypted) central configuration file
	Support NAT traversal using STUN and symmetric RTP
	Support 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 and SRTP (pending) secure configuration file (AES)

Hardware Specification

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