



GXE502x IP-PBX appliance is the next generation in converged business communication systems. It is a powerful all-in-one + fax + video + data communication solution for the small to sized business (SMB), especially companies with sub-30 seat per location. Designed from ground up to support distributed IP communications, intelligent integrates legacy PSTN trunk and telephone interfaces for fail-safe hybrid communication needs in all circumstances, including situations of power or network loss. The GXE502x IP-PBX raises the level of modern business communication systems for SMB to a new height of innovation, quality reliability, feature integration user productivity, ease of deployment & administration, and affordability.

Key Feature Highlights

- Integrated performance data with advance voice/video QoS support.
- Integrated legacy PSTN trunks, analog phone/Fax, ports, & unlimited SIP trunk options.
- Integrated session border controller (SBC) for NAT/Firewall transversal and secure telecommunicating.
- Integrated conference bridges that allow any combination of IP or PSTN calls using any codecs (built-in-transcoding).
- Unified messaging including voicemail-to-mail, and video-to-mail (pending).
- Power and network failure survivability call routing in all circumstances.
- Support true and local emergency call routing in all circumstances.
- Automated detection and provisioning of IP phones, video phones, ATA and other endpoints for easy deployment.
- Rich PBX features such as presence, shared line appearance, call park & pickup, call queue, ACD, intercom & paging, ring group, customizable auto-attendant & IVR, personal music-on-hold, branch office system peering.
- Hardware accelerated encryption engine to ensure strongest security protection using SRTP and TLS.
- Personal WEB portal to manage individual phone/call setting, personal greeting, new or saved voice/fax/video messages for each extension user.
- Flexible dial plan, call routing and call recording (pending)

Network Interfaces

- 1xWAN and 1xLAN 10M/100M auto-sending Ethernet points (RJ45), with integrated PoE (802.3af) on the LAN port.

PSTN Trunk Line, Phone/Fax & Peripheral Interfaces

- 4 (GXE5024) or 8 (GXE5028) FXO ports and 2 x FXS ports (RJ11).
- 3 REN, Bellcore Type 1 & 2, ETSI, BT NTT, DTMF based caller ID, Polarity reversal/wink supported.
- 1xAudio Input, 1xAudio Output, 1xUSB.

LED Indicators & Universal Power Supply

- LED: Power, Ready, USB, VoIP, WAN, LAN, Line, Phone.
- Power: 100V-240V 50-60Hz input; 12VDC 1.25A output.

Compliance

- FCC Part 68 & 15B; EN55022, EN55024, TBR21, EN60950;
- C-Tick: AS/NZS CISPR24; A-Tick: AS-ACIF S002,
- AS/NZS60950: UL (Power supply)

Power & Network Loss Survivability and emergency Call

- 2 PSTN fail-over life lines in case of power outage;
- IP network disruption fail-over to PSTN line and recovery.
- Support true & local emergency (911) call routing and E911 over IP.

Communications & Security Protocols

- TCP/UDP/IP, RTP/TRPC, ICM, ARP/RARP, DNS, DDNS, DHCP, NTP, TFTP, TELNET, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS/SIPS.

Voice/Video/Fax-over-IP Capabilities & QoS

- G.711, G.723.1, G.729A/B/E, G.726, iLBC, H.264, H.263/H.263+
- Carrier grade G.168 compliant line echo cancellation, T.38 Group 3 fax relay, multiple DTMF methods (in-audio), RFC2833, SIP INFO)
- Layer 2 (802.1p/Q) and layer 3 (DiffServ, ToS) QoS.

System Management & Endpoint provisioning

- HTTP/HTTPS, TELNET, syslog, TR-069 (pending)
- Auto provisioning of Grandstream IP PHONE & ata, plug-n-play.

System Capacity, Performance & Expandability

- Integrated SIP proxy server that supports up to 100 user extensions and 50+ simultaneous calls.
- 512MByte NAND Flash storage that allows up to 150 hours of voicemail, 10.000 pages of fax messages, & 4 hours of video mail.
- Support unlimited external PSTN trunk or FXS Gateways.

- Support unlimited SIP trunk accounts.
- Support unlimited peering with remote offices

Conference Bridge

- 2 (GXE5024) or 4 (GXE5028) Password protected conference bridges allowing up to 12 (GXE5024) or 20 (GXE5028) simultaneous participants from either PSTN trunk or IP using any voice codec.

Unified Messaging

- Voicemail-to-email (.wav), fax-to-email (PDF), and video-to-email (pending)
- Companion PC tool to allow print-to-fax from any Windows applications
- Personal Web portal to manage phone/call setting, personal greeting, new or saved voice/fax/video messages.

Auto-Attendant

- Support unlimited configurable interactive responses (IVR) applications with easy-to-use interface and multi-language voice prompt.
- Flexible time and condition control to allow virtually unlimited playing modes (business hour, lunch or night mode, holiday, etc)

Router, NAT/Firewall Traversal and telecommunicating

- Integrated high performance NAT Router.
- Integrated Session Border Controller (SBC) that supports automated NAT traversal for remote endpoints from behind NAT/firewall
- Support dynamic DNS to allow telecommuting & peering without reliance on fixed IP address.

Key Telephone Features

- Call park/pick-up, transfer, hold, shared line appearance, presence, hunt/ring group, intercom & paging, personalized music-on-hold, flexible dial plan and call routing control, call recording.

Call Center & Other Applications Support

- Configurable call queues, automatic call distribution (ACD) based on agent skills/availability/busy level, in-queue announcement.
- Integration with CRM and other 3rd party applications (pending).

