

GXW4216/4224/4232/4248

High Density FXS Analog VoIP Gateway



GXW4216/4224/4232/4248 is a next generation high performance high-density analog VoIP gateway that is fully compliant with SIP standard and broadly interoperable with various VoIP systems, analog PBX and phones on the market. It features 16/24/32/48 FXS analog telephone ports, superb voice quality, rich telephony functionalities, easy provisioning, flexible dialing plans, advanced security protection, and excellent performance in handling high volume voice calls. The GXW4216/4224/4232/4248 gateway offers small-to-medium businesses a cost-effective hybrid IP and analog telephone system that allows them to enjoy the benefits of VoIP communications while preserving investment on existing analog phones, Fax machines and legacy PBX systems.

Feature Highlights & Applications

- 16/24/32/48 telephone FXS ports with both RJ11 and 50-pin Telco connectors, as well as per port LED
- Gigabit Ethernet and a backlit 128x32 graphic LCD display with support for multiple languages
- 4 SIP server profiles per system and independent SIP account per port
- Supported voice/Fax codecs include G.711, G.723.1, G.726, G.729A/B, iLBC, T.38 Fax
- Advanced carrier grade 128ms-tail-length line echo cancellation
- Over-voltage and over-current protection (ITU-T K.21 Basic Test Level)
- Support VMWI, NEON LED and shutter tone for message waiting indication
- Automated provisioning using TR-069 or AES encrypted XML configuration file; TLS/SRTP/HTTPS for advanced security and privacy protection

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Technical Specifications

Telephone Interfaces	GXW4216/4224/4232: 16/24/32 x RJ11 FXS ports & 1/1/2 50-pin Telco connectors GXW4248: 2 50-pin Telco connectors
Network Interfaces	1 x 10M/100M/1000Mbps auto-sensing RJ45 port
LED indicators	LAN Link, LAN Activity, Connection Per Telephone Port
LCD display	Backlit 128x32 graphic LCD display with support for multiple languages
Voice-over-Packet Capabilities	Window based carrier grade line echo cancellation, dynamic jitter buffer, modem detection & auto-switch to G.711
Voice Compression	G.711, G.723.1, G.726 (40/32/24/16), G.729 A/B, iLBC
Fax over IP	T.38 compliant Group 3 Fax Relay up to 14.4kbps and auto-switch to G.711 for Fax Pass-through, Fax data pump V.17, V.21, V.27ter, V.29 for T.38 fax relay
Telephony Feature	Caller ID display or block, call waiting, blind or attended call transfer, call forward, do not disturb, 3-way conference, last call return, paging, message waiting indicator LED (NEON LED) support and stutter tone, auto dial
QoS	DiffServ, TOS, 802.1P/Q VLAN tagging
Network Protocols	TCP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, PPPoE, STUN, LLDP (pending)
DTMF Method	Flexible DTMF transmission methods including In-audio, RFC2833, and/or SIP INFO
Signaling	SIP (RFC 3261) over UDP/TCP/TLS
SIP Server Profiles & Accounts Per System	4 distinct SIP server profiles per system and independent SIP account per telephone port
Provisioning	TFTP, HTTP, HTTPS, TR069
Security	SRTP, TLS/SIPS, HTTPS, 802.1x
Management	Syslog, HTTPS, Web browser, voice prompt, TR-069
Universal Power Supply	GXW4232/4224/4216: Output: 12VDC, 5A; Input: 100 ~ 240VAC, 50 ~ 60Hz GXW4248: Output: 24VDC, 6.25A; Input: 100 ~ 240VAC, 50 ~ 60Hz
Environmental	Operating: 0°C ~ 40°C; Storage: -20°C ~ 60°C; Humidity: 10% ~ 90% (non-condensing)
Electrical Protection	Over-voltage and over-current protection (ITU-T Recommendation K.21, Basic Test Level)
Physical	Unit dimension: 440mm (L) x 255mm (W) x 44mm (H) (1U) (GXW4248) 440mm (L) x 185mm (W) x 44mm (H) (1U) (GXW4216/4224/4232) Unit weight: 3.21KG; Package weight: 4.31KG (GXW4248) 2.63KG; 3.68KG (GXW4232) 2.57KG; 3.62KG (GXW4224) 2.39KG; 3.48KG (GXW4216)
Mounting	Desktop and rack mount with front brackets
Short & Long Haul	2 REN, up to 1500ft on 24 AWG wire
Caller ID	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
Disconnect Methods	Busy Tone, Polarity Reversal/ Wink, Loop Current
Compliance	FCC: Part 15 (CFR 47) Class B CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, RoHS C-TICK: AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, AS/NZS 60950 ITU-T K.21 (Basic Test Level); UL 60950 (power adapter)

