

# ***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 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

**Corporate Headquarters:**  
126 Brookline Avenue, 3rd Floor  
Boston, MA 02215, USA

**Regional Offices:** Dallas, TX, USA | Los Angeles, CA, USA | Casablanca, Morocco | Valencia, Venezuela | Hangzhou, China | Shenzhen, China

**Grandstream Networks, Inc.**

**[www.grandstream.com](http://www.grandstream.com)**

**[info@grandstream.com](mailto:info@grandstream.com)**

# GXW4216/4224/4232/4248 Technical Specifications

<b>Telephone Interfaces</b>	GXW4216/4224/4232: 16/24/32 x RJ11 FXS ports & 1/1/2 50-pin Telco connectors GXW4248: 2 50-pin Telco connectors
<b>Network Interfaces</b>	1 x 10M/100M/1000Mbps auto-sensing RJ45 port
<b>LED indicators</b>	LAN Link, LAN Activity, Connection Per Telephone Port
<b>LCD display</b>	Backlit 128x32 graphic LCD display with support for multiple languages
<b>Voice-over-Packet Capabilities</b>	Window based carrier grade line echo cancellation, dynamic jitter buffer, modem detection & auto-switch to G.711
<b>Voice Compression</b>	G.711, G.723.1, G.726 (40/32/24/16), G.729 A/B, iLBC
<b>Fax over IP</b>	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
<b>Telephony Feature</b>	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
<b>QoS</b>	DiffServ, TOS, 802.1P/Q VLAN tagging
<b>Network Protocols</b>	TCP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, PPPoE, STUN, LLDP (pending)
<b>DTMF Method</b>	Flexible DTMF transmission methods including In-audio, RFC2833, and/or SIP INFO
<b>Signaling</b>	SIP (RFC 3261) over UDP/TCP/TLS
<b>SIP Server Profiles &amp; Accounts Per System</b>	4 distinct SIP server profiles per system and independent SIP account per telephone port
<b>Provisioning</b>	TFTP, HTTP, HTTPS, TR069
<b>Security</b>	SRTP, TLS/SIPS, HTTPS, 802.1x
<b>Management</b>	Syslog, HTTPS, Web browser, voice prompt, TR-069
<b>Universal Power Supply</b>	GXW4232/4224/4216: Output: 12VDC, 5A; Input: 100 ~ 240VAC, 50 ~ 60Hz GXW4248: Output: 24VDC, 6.25A; Input: 100 ~ 240VAC, 50 ~ 60Hz
<b>Environmental</b>	Operating: 0°C ~ 40°C; Storage: -20°C ~ 60°C; Humidity: 10% ~ 90% (non-condensing)
<b>Electrical Protection</b>	Over-voltage and over-current protection (ITU-T Recommendation K.21, Basic Test Level)
<b>Physical</b>	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)
<b>Mounting</b>	Desktop and rack mount with front brackets
<b>Short &amp; Long Haul</b>	2 REN, up to 1500ft on 24 AWG wire
<b>Caller ID</b>	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
<b>Disconnect Methods</b>	Busy Tone, Polarity Reversal/ Wink, Loop Current
<b>Compliance</b>	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)

