GRANDSTREAM
CONNECTING THE WORLD

E1/T1/J1 Digital VoIP Gateway

GXW4500 Series

The GXW4500 series are E1/T1 Digital VoIP Gateways that allow digital PSTN and ISDN trunks to be integrated with VoIP networks. By connecting the GXW4500 series with a VoIP network and a traditional PBX or E1/T1 provider, businesses can drastically increase the amount of PSTN/ISDN trunks integrated with their VoIP network. The GXW4500 series offers three models that provide 1, 2 or 4 T1/E1/J1 spans and support 30, 60 or 120 concurrent calls to cater to the VoIP needs of large and medium sized enterprises.

Gigabit

Dual Gigabit auto-sensing RJ45 network ports with integrated NAT router

TLS and SRTP security encryption technology to protect calls and accounts

Automated provisioning by HTTP/TFTP with XML config files

Software configurable E1/T1/J1 ports, support PRI, SS7, MFC R2

HD

Supports a wide-range of voice codecs, including G.722, G.729, iLBC, and more

Supports T.38 Fax for creating Fax-over-IP

Supports multi-language voice promtps

Supports up to 120 concurrent calls

Interfaces	
T1/E1/J1 Interface	1/2/4 RJ45 ports, supporting up to 30/60/120 simultaneous VoIP calls
Network Interfaces	Dual self-adaptive Gigabit ports (switched or routed)
Peripheral Ports	(2) USB 3.0, (1) SD card interface
LED Indicators	LAN, WAN, T1/E1/J1
LCD Display	128x32 dot matrix graphic LCD with DOWN and OK buttons
Reset Switch	Yes, long press for factory reset and short press for reboot
Voice & Video Capabilities	
Voice-over-Packet Capabilities	LEC with NLP Packetized Voice Protocol Unit, 128ms-tail-length carrier grade Line Echo Cancellation, Dynamic Jitter Buffer, Modem detection & auto-switch to G.711
Voice and Fax Codecs	G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, iLBC, AAL2-G.726-32
Fax over IP	T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Passthrough, Fax data pump V.17, V.21, V.27ter, V.29 for T.38 fax relay
Voice-quality Enhancement	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Signaling & Control	
DTMF Methods	In-band audio, RFC2833, and SIP INFO
Digital Signaling	SIP (RFC 3261) over UDP/TCP/TLS, PRI, SS7, MFC R2, RBS (pending) PRI switch types: Euro ISDN, nation, Q.SIG CAS: MFC R2 (Argentina, Brazil, China, Czech Republic, Colombia, Ecuador, Indonesia, ITU, Mexico, Philippines, Venezuela) SS7: ITU, ANSI, China
Upgrade	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload
Device Management	Syslog, HTTPS, Web browser, voice prompt, TR-069 management, backup and restore, port capture and packet capture
Network Protocols	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, STUN, SRTP, TLS, LDAP, HDLC, HDLC-ETH, PPP, Frame Relay (pending), IPv6, OpenVPN®
Status and statistic	Call status and history, device status monitoring and ISDN status monitoring
Security	
Media Encryption	SRTP, TLS, HTTPS, SSH, 802.1X
User-defined ports	SIP port, RTP port, HTTP/HTTPS port
Advanced Defense	Fail2ban, alert events, Whitelist, Blacklist, strong password based access control
Physical	
Universal Power Supply	Input: 100 ~ 240VAC, 50/60Hz; Output: DC+12V, 1.5A
Physical & Dimensions	Unit Weight: 2,350g; Package Weight: 780g Unit Dimensions: 485mm(L) x 190mm(W) x 46mm (H)
Temperature and Humidity	Operating: 32 - 113ºF / 0 ~ 45ºC, Humidity 10 - 90% (non-condensing) Storage: 14 - 140ºF / -10 ~ 60ºC, Humidity 10 - 90% (non-condensing)
Mounting	Rack mount & Desktop
Additional Features	
Multi-Language Support	Web UI: English, Simplified Chinese, Traditional Chinese, Spanish, French, Portuguese, German, Russian, Italian, Polish, Czech; Customizable IVR/voice prompts: English, Chinese, British English, German, Spanish, Greek, French, Italian, Dutch, Polish, Portuguese, Russian, Swedish, Turkish, Hebrew, Arabic; Customizable language pack to support any other languages
Compliance	FCC: Part 15 (CFR 47) Class B, Part 68 CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, TBR21, RoHS RCM: AS/NZS CISPR 22, AS/NZS CISPR 24, AS/NZS 60950, AS/ACIF S002 ITU-T K.21 (Basic Level); UL 60950 (power adapter) T1: TIA-968-B Section 5.2.4 E1: TBR4/TBR12/TBR13, E1: AS/ACIF