



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 E1/T1/J1 spans and support 30, 60 or 120 concurrent calls to cater to the VoIP needs of large and medium sized enterprises.



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



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 prompts



Supports up to 120 concurrent calls

E1/T1/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, E1/T1/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 14.4kbps 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
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, 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, 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, 2A
Physical & Dimensions	GXW4501: Unit Weight: 2,350g; Package Weight: 3130g GXW4502: Unit Weight: 2360g; Package Weight: 3140g GXW4504: Unit Weight: 2380g; Package Weight: 3160g Unit Dimensions: 485mm(L) x 191mm(W) x 46.2mm (H)
Temperature and Humidity	Operating: 32 - 113°F / 0 ~ 45°C, Humidity 10 - 90% (non-condensing) Storage: 14 - 140°F / -10 ~ 60°C, 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 47 C.F.R FCC Part 15 Class B 47 C.F.R FCC Part 68 (TIA-968-B Section 5.2.4 (T1+ISDN))
	CE EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 60950-1, TBR 4 (E1+ISDN), TBR 12 (E1), TBR 13 (E1+ISDN)
	RCM AS/NZS CISPR 32, AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 60950.1, AS/ACIF S016(E1), AS/ACIF S038(E1+ISDN)
	Other ITU K.21 (Enhanced Levels); UL 60950-1 (Power adapter)