



## E1/T1/J1 Digital VoIP Gateway

### GXW450 series

The GXW450 series are E1/T1 Digital VoIP Gateways that allow digital PSTN and ISDN trunks to be integrated with VoIP networks. By connecting the GXW450 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 and the concurrent calls supported. The GXW450 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



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

<b>Interfaces</b>	
<b>T1/E1/J1 Interface</b>	1/2/4 RJ45 ports, supporting up to 30/60/120 simultaneous VoIP calls
<b>Network Interfaces</b>	Dual self-adaptive Gigabit ports (switched or routed)
<b>Peripheral Ports</b>	(2) USB 3.0, (1) SD card interface
<b>LED Indicators</b>	LAN, WAN, T1/E1/J1
<b>LCD Display</b>	128x32 dot matrix graphic LCD with DOWN and OK buttons
<b>Reset Switch</b>	Yes, long press for factory reset and short press for reboot
<b>Voice &amp; Video Capabilities</b>	
<b>Voice-over-Packet Capabilities</b>	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
<b>Voice and Fax Codecs</b>	G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, Opus, iLBC, GSM-FR, AAL2-G.726-32
<b>Fax over IP</b>	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
<b>Voice-quality Enhancement</b>	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC
<b>QoS</b>	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
<b>Signaling &amp; Control</b>	
<b>DTMF Methods</b>	In-band audio, RFC2833, and SIP INFO
<b>Digital Signaling</b>	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
<b>Upgrade</b>	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload
<b>Device Management</b>	Syslog, HTTPS, Web browser, voice prompt, TR-069 management, backup and restore, port capture and packet capture
<b>Network Protocols</b>	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®
<b>Status and statistic</b>	Call status and history, device status monitoring and ISND status monitoring
<b>Security</b>	
<b>Media Encryption</b>	SRTP, TLS, HTTPS, SSH, 802.1X
<b>User-defined ports</b>	SIP port, RTP port, HTTP/HTTPS port
<b>Advanced Defense</b>	Fail2ban, alert events, Whitelist, Blacklist, strong password based access control
<b>Physical</b>	
<b>Universal Power Supply</b>	Input: 100 ~ 240VAC, 50/60Hz; Output: DC+12V, 1.5A
<b>Physical &amp; Dimensions</b>	Unit Weight: x.xxx kg; Package Weight: x.xxx kg Unit Dimensions: 485mm(L) x 190mm(W) x 46mm (H)
<b>Temperature and Humidity</b>	Operating: 32 - 113°F / 0 ~ 45°C, Humidity 10 - 90% (non-condensing) Storage: 14 - 140°F / -10 ~ 60°C, Humidity 10 - 90% (non-condensing)
<b>Mounting</b>	Rack mount & Desktop
<b>Additional Features</b>	
<b>Multi-Language Support</b>	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
<div style="border: 1px solid red; padding: 5px;"> <p>FCC: Part 15 (CFR 47) Class B, Part 68 CE: EN 55032 Class B, EN 55035, EN61000-3-2, EN61000-3-3, EN60950-1, RoHS RCM: AS/NZS CISPR 32, AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 60950.1&gt;&gt;AS/NZS 60950.1,AS/ACIF S002 删除AS/NZS 60950, AS/ACIF S002 ITU-T K.21 (Basic Level); UL 60950 (power adapter) T1: T1A-968-B Section 5.2.4 E1: TBR4/TBR12/TBR13, E1: AS/ACIF</p> </div>	
<p>B, Part 68 EN61000-3-2, EN61000-3-3, EN60950-1, <del>TBR21</del>, RoHS NLS CISPR 24, AS/NZS 60950, AS/ACIF S002 60950 (power adapter) AS/ACIF</p>	