



## 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.



#### 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>E1/T1/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, E1/T1/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, iLBC, AAL2-G.726-32   |
| <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>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)<br>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, 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, PPP, Frame Relay (pending), IPv6, OpenVPN®  |
| <b>Status and statistic</b>           | Call status and history, device status monitoring and ISDN 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, 2A  |
| <b>Physical &amp; Dimensions</b>      | GXW4501: Unit Weight: 2,350g; Package Weight: 3130g<br>GXW4502: Unit Weight: 2360g; Package Weight: 3140g<br>GXW4504: Unit Weight: 2380g; Package Weight: 3160g<br>Unit Dimensions: 485mm(L) x 191mm(W) x 46.2mm (H)  |
| <b>Temperature and Humidity</b>       | Operating: 32 - 113°F / 0 ~ 45°C, Humidity 10 - 90% (non-condensing)<br>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;<br>Customizable IVR/voice prompts: English, Chinese, British English, German, Spanish, Greek, French, Italian, Dutch, Polish, Portuguese, Russian, Swedish, Turkish, Hebrew, Arabic;<br>Customizable language pack to support any other languages |
| <b>Compliance</b>                     | FCC 47 C.F.R FCC Part 15 Class B<br>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)  |