



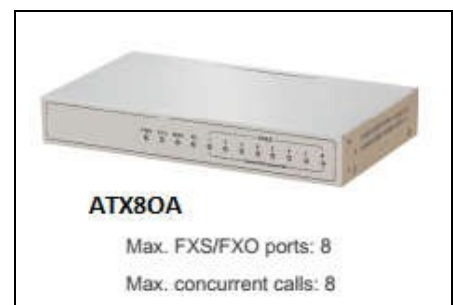
Turning Copper into Gold
GST No. 07AAAECA9973H1ZA

ATX4SA/ATX8OA VOIP Developed for small businesses, SOHO and residential IP telephony applications, the ATX4SA/ATX8OA gateways are integrated VoIP devices that provide reliable and cost efficient access methods flexible for deploying converged communication solutions for network operators and enterprises as well. ATX4SA/ATX8OA are designed as compact units with 2 or 8 FXS/FXO ports, 1 WAN port, and 1 PC port, which allow users to apply them as N-to-1 systems capable of providing versatile solutions by connecting analog phone, fax and POS machine, IP telephony and PSTN. Comprehensive Feature Set with Intelligent Engine As intelligent gateways running on embedded Linux operating system, ATX4SA/ATX8OA are compatible with many highlighted features such as call forward, call transfer, 3-way conference, caller ID, DND, color ringback, forking, automatic routing, digitmap, PSTN failover, and much more to provide a complete and highly reliable VoIP solution applicable to most scenarios. High Reliability

The hardware design of the ATX4SA/ATX8OA, from architecture to component selection, take full consideration of improving their reliability. In addition, with high availability featuring primary-standby, active-standby and load balance as well as PSTN failover designed to handle the failure of the SIP proxy servers, power supply and network, the users are provided with carrier class reliability with minimized potential downtime. Robust Protection against Intrusions ATX4SA/ATX8OA provide rich set of features to support perimeter protection against malicious intrusions, such as brute force logins and SIP attacks, ensuring a high level of security in your IP telephony environment. Remote Management and NAT Traversal The ATX4SA/ATX8OA include the Cloud client, providing easy access with NAT traversal to endpoint devices and value-added applications for remote, real-time monitoring, maintenance, software upgrades, troubleshooting, data analysis, alarm notification, remote and packet capture

Features

- Flexible configuration of FXS/FXO ports
- SIP/MGCP protocols
- 500 routing and number manipulation rules
- Support Smart Fax over IP (SFoIP)
- PSTN failover
- TLS/SRTP
- Auto provisioning
- Remote access via Cloud (US: Youbiquity)
- Management with or third-party EMS (TR-069, SNMP)
- Interoperability with popular SIP servers, such as Cisco CallManager/
- CUCM, Broadsoft, Microsoft Skype for Business (Lync), Huawei IMS,
- VoS, FreeSWITCH and Asterisk/Elastix
- Class I lightning protection



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Specification																															
Call control	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)																														
Network	SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN																														
Media Processing																															
Caller ID	Bellcore/Telcordia, ETSI, BT, DTMF G.711 (a/μ), G.729a, G.722																														
Codec	In-band audio, RFC2833, SIP-INFO																														
DTMF	Local processing, RFC2833, SIP-INFO T.38, G.711 pass-through																														
Hook-flash	T.38 compliant Group 3 Fax Relay																														
Fax over IP	Maximum fax rate of 33,600 bps (T.38) Support Smart Fax over IP (SFoIP)																														
<p>Disconnect modes Polarity reversal, Busy tone detection, Loop current</p> <p>QoS : DiffServ, TOS, 802.1P/Q VLAN tagging</p> <p>Voice-quality:enhancement Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC</p> <p>HTTPS, SSH, TLS, SRTP</p> <p>Encrypted password/PIN</p> <p>Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, Alarm and notification*</p> <p>Auto discovery via DHCP, Manual configuration</p> <p>L2TP, OpenVPN</p> <p>Blind transfer, Consultative transfer</p> <p>Call transfer: Call forward all, Call forward no answer,</p> <p>Call forward: Call forward busy</p> <p>Call recording storage Remote recording server for storage</p> <p>Call settings Routing based on the caller or callee number, Digit map, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tones Hunt group, Ring cadence, Message Waiting Indicator (MWI) EMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP</p> <p>Protocol HTTPS, SSH, TLS, SRTP</p> <p>Encryption : Encrypted password/PIN</p> <p>Intrusion prevention :Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, Alarm and notification*</p> <p>VLAN :Auto discovery via DHCP, Manual configuration</p> <p>VPN client : L2TP, OpenVPN</p>																															
Redundancy	Primary-Standby, Active-Standby, Load balancing																														
PSTN failover	Power failure, Network failure																														
Device management																															
Remote access over TCP	EMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP																														
<p>Auto provisioning Download configuration file via TFTP/FTP/HTTP/ HTTPS, Obtaining ACS address via DHCP option 66 or redirection</p> <p>Log management : 8-level logs, Syslog</p> <p>Data capture :Port capture, Packet capture</p> <p>Status and statistic :Call status and history, Device status monitoring and statistics collection</p> <p>Upgrade : Firmware upgrade via Web GUI or Auto provisioning</p> <p>Included Software</p> <p>Finder Obtains IP addresses of devices in a LAN environment</p> <p>Telegreeting : Formats pre-prepared IVR audio files for uploads them into a device</p> <p>Recording Agent :Receives recording streams in PCM and converts them into MP3 format. Includes management functions such as search, play, delete and backup</p> <p>Hardware:</p> <table border="1"> <tbody> <tr> <td>CPU</td> <td>700 MHz</td> <td></td> </tr> <tr> <td>RAM</td> <td>64 MB</td> <td>128 MB</td> </tr> <tr> <td>Flash</td> <td>16 MB</td> <td>32 MB</td> </tr> <tr> <td>H×W×D (1U)</td> <td>30 × 150 × 109 mm</td> <td>35 × 228 × 135.5 mm</td> </tr> <tr> <td>Weight (net)</td> <td>0.3 kg</td> <td>0.825 kg</td> </tr> <tr> <td>Power</td> <td>12VDC/1.5V</td> <td>12VDC/1.5V</td> </tr> <tr> <td>Power consumption</td> <td>6 W</td> <td>12 W</td> </tr> <tr> <td>Mounting</td> <td>Desktop</td> <td></td> </tr> <tr> <td>Operating</td> <td>Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)</td> <td></td> </tr> <tr> <td>Storage</td> <td>Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)</td> <td></td> </tr> </tbody> </table>		CPU	700 MHz		RAM	64 MB	128 MB	Flash	16 MB	32 MB	H×W×D (1U)	30 × 150 × 109 mm	35 × 228 × 135.5 mm	Weight (net)	0.3 kg	0.825 kg	Power	12VDC/1.5V	12VDC/1.5V	Power consumption	6 W	12 W	Mounting	Desktop		Operating	Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)		Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)	
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