



Models:

P-2002, VoIP ATA P-2002L, VoIP ATA with PSTN Lifeline

ZyXEL's P-2002 is an Analog Telephone Adapter (ATA) that provides customers with an easy-to-use solution for Voice over IP service deployment. Connecting a traditional phone set to the POTS phone port of the P-2002 series instantly establishes an IP phone device, allowing users to place VoIP calls without the use of a PC. Based on industry standard SIP (Session Initiation protocol, RFC 3261) call control protocol and sophisticated voice compression technology, the P-2002 series offers smooth IP-based voice communication with superb sound quality.

ZyXEL's P-2002 series Analog Telephone Adapter is an ideal solution for IP Telephony service deployment as well as SOHO and Home VoIP applications.

Benefits

Supports Open Standard

ZyXEL's P-2002 series supports standard SIP (RFC 3261), which is suitable for IP telephony service deployment and addresses the needs of users who are connecting to emerging SIP-based communication networks.

Easy to Deploy

ZyXEL's P-2002 series supports multiple methods of configuration including Web-based configuration, Telnet management, and TFTP Auto-Provisioning. It eliminates the time and effort associated with complicated installation procedures.

Multiple SIP and Voice Channels

Based on ZyXEL's flexible VoIP technology platform, one or more SIP phone number may be configured with the P-2002 ATA. Each SIP phone number can be freely assigned to either phone port individually, or to both ports at the same time.

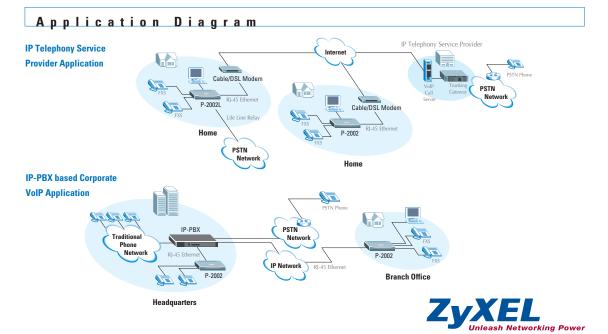
By using the P-2002 ATA to deploy VoIP service, service providers need only provide a minimum of one SIP number to each subscriber. Billing and service deployment are simplified by allowing subscribers to use two phones with the same SIP number. If one telephone is in use, users may use a secondary telephone to place a call while using the same SIP number. Additionally, users may also receive incoming calls even when the SIP number is in use. The advantages of the P- 2002 ATA include increased traffic and service revenue.

Cost Effective

ZyXEL's P-2002 series turns a traditional phone into an IP phone device at a very low cost. Not only does the Prestige 2002 series deliver VoIP service at a low per-port cost but the built-in two-port Ethernet switch also allows user to connect their PC to the reserve Ethernet port without adding an extra Ethernet switch or hub.

Lifeline Support (Option, P-2002L)

ZyXEL's P-2002L allows users to maintain PSTN phone service and VoIP service at the same time. When ATA power down occurs or VoIP service is not available, outgoing phone calls will be relayed to PSTN automatically. When VoIP service is active, users can place calls to a PSTN phone by dialing pre-fix numbers. Emergency calls or important calls can be relayed to PSTN automatically.



VoIP Analog Telephone Adapter

Features

Voice Functionality

- SIP (RFC 3261) version 2
- SDP (RFC 2327)
- RTP (RFC1889)
- RTCP (RFC1890)
- Echo Cancellation: G.168
- VAD (Voice Activity Detection)
- Silence Suppression
- CNG (Comfort Noise Generation)
- Dynamic Jitter Buffer (Adaptive)
- QoS Supports TOS, DiffServ
- VLAN Tagging
- 3 REN per RJ-11 FXS ports
- DTMF Detection and Generation
- DTMF: In-Band and Out-of-Band (RFC 2833), (SIP INFO)
- SIP NAT Traversal Support STUN (RFC 3489)

Specifications

Hardware Specification

- LAN: Two 10M/100M Auto MDI/MDIX Ethernet Ports
- Phone: Two RJ-11 ports for Analog Telephone sevice
- Lifeline Port: One RJ-11 Port for PSTN Lifeline (P-2002L)

* For future release Success of FAX transmissions depends on network conditions and your FAX machine tolerance to those conditions. Your network environment should have reasonably low delay, jitter, and packet loss rate.

- Fax Tone Detection and Pass-through
- Modem Tone Detection and Pass-through*
- T.38 FAX Relay*
- Speed Dial Phonebook
- Telephony Features: Caller ID, Call Waiting, Message Waiting, Three Way Conference (Depends on IP Telephony Service Provider)*
- Flash Hook Timer*
- Freely assignable to Each Phone Port

• Status LEDs Indicator: PWR/VoIP, LAN,

• Multiple Channel Technology

- Voice Codecs
- G.711
- G.729
- GSM (Option)*
- G.726 (Option)*
- G.723 (Option)*

Reset Button

PC, Phone1, Phone2

• Power: 12V AC input

PSTN Lifeline Support

(Option, P-2002L with PSTN Line Port)

- Send Emergency Call to PSTN
- Make a PSTN Call by Dialing Pre-fix Number
- PSTN Relay when Device Power Down
- PSTN Relay when VoIP Service is Not Available
- Receive Incoming PSTN Phone Call

Network Functionality

- PPPoF
- DHCP Client
- Friendly Web-based Configuration Tool
- Telnet Management
- FTP/TFTP Firmware Upgrade and Configuration Backup/restore
- Support TFTP Auto-Provisioning

Physical Specification

- Dimensions:
 - 180(L) x 128(D) x 36.5(H) mm
- Weight: 312g

Operating Environment

- Temperature: 0°C ~ 40°C
- Humidity: 20% ~ 85% (Non-condensing)

Real Panel





Denmark Tel: +45 39 55 07 00 Fax: +45 39 55 07 07 Email: sales@zyxel.dk http://www.zyxel.dk

Email: sales@zvxel.fi

http://www.zyxel.fi

Finland Tel: +358-9-4780 8400 Fax: +358-9-4780 8448



Corporate Headquarters ZyXEL Communications Corp. Tel: +886-3-578-3942 Fax: +886-3-578-2439 Email: sales@zyxel.com.tw

http://www.zyxel.com http://www.zyxel.com.tw

France Tel: +33 (0)4 72 52 97 97 Fax: +33 (0)4 72 52 19 20 Email: info@zyxel.fr http://www.zyxel.fr

Germany Tel: +49 2405 6909 0 Fax: +49 2405 6909 99 Email: sales@zvxel.de http://www.zyxel.de

North America Tel: +1-714-632-0882 Fax: +1-714-632-0858 Email: sales@zyxel.com http://www.us.zyxel.com

Norway Tel: +47 22 80 61 80 Fax: +47 22 80 61 81 Email: sales@zyxel.no http://www.zyxel.no



Spain Tel: +34 902 195 420 Fax: +34 913 005 345 Email: sales@zyxel.es http:// www.zyxel.es Sweden

Tel: +46 31 744 7700 Fax: +46 31 744 7701 Email: sales@zyxel.se http://www.zyxel.se

nt© 2004 ZvXEL Cor ed. The ZyXEL and ZyNOS s of ZvXEL C 65-100-200303