

ZyXEL



Plug and Talk VoIP ATA



- **Configurable Router/Bridge Mode**
- **Multiple SIP numbers and Voice Channels Enables Feature-rich Phone Services over Internet Connection**
- **Media Bandwidth Management (MBM™) Quality of Service (QoS) Prioritizes Time-sensitive Traffics for Better Performance**
- **Large-scale Deployment and Management with Auto Provisioning Server**

Benefits

Unified Design Configurable to Bridge/Routing Mode

The bridge/routing can be configured by the users in the WebGUI manually. User can manually let the device fit with various kinds of ITSP network environment. It dramatically reduce ITSP stock management effort by firmware configurable alternatives.

Rich Call Features

A number of sophisticated call features are engineered into the ZyXEL VoIP device. Users can perform the related features such as call forwarding, call transfer, three way conference call, etc. with just WebGUI and keypad.

Effective Network Bandwidth Management

The VoIP device enables network administrators to allocate network resources while guaranteeing Quality of Service (QoS). Network Bandwidth Management enhances productivity and efficiency by tailoring a system to specific demands such as time-sensitive VoIP and multimedia applications.

Easy Provisioning Management of TR-104* (Customizable)

On ZyXEL TR-104, the VoIP CPE Provisioning parameter defines a VoIP CPE device provisioning data model established by an Auto-configuration Server (ACS) using the mechanism.

* Further enhancement.



VoIP

VoIP ATA/Station Gateway

P-2301RL-P1C
P-2301R-P1C
P-2302R-P1C

Specifications

System Specifications

Router Features

- NAT (includes multi-to-multi NAT)/SUA, 2048 NAT sessions
- NAT Server (Port Forwarding)
- TCP/IP
- PPPoE Client
- DHCP Client/Server
- RIP I/RIP II Supported
- IP Multicasting, IGMP v1 and v2
- Dynamic DNS Support
- IP Alias

Voice Functionality

- SIP (RFC 3261) version 2
- SDP (RFC 2327)
- RTP (RFC 1889)
- RTCP (RFC 1890)
- Echo Cancellation: G.168
- VAD (Voice Activity Detection)
- Silence Suppression
- CNG (Comfort Noise Generation)
- Support TOS & Diffserv Tagging
- VLAN Tag Support
- Codec: G.711 (PCM A-law or μ -law selectable), G.729a/b
- Option: G.726 (ADPCM), G.723
- DTMF Detection
- Modem and Fax Tone Detection
- T.38 Fax Relay

Phone Features

- CW (Call Waiting)
- Call Waiting w/Caller ID
- Call Forwarding (Unconditional/Busy/No Answer)
- Call Transferring

- Three Way Conference w/local mixing
- CLIP (Calling Line Identification Presentation)
- CLIR (Calling Line Identification Restriction)
- Call Hold/Call Retrieve
- Incoming Call Policy (Call Accept/Call Forward/Call Block)
- Second Call
- Internal Call
- Early Media
- Flash Hook Timer
- Music on Hold
- MWI (Message Waiting Indicator (RFC 3842))
- IVR (Interactive Voice Response)
- Speed Dial (Phone Book)
- Caller ID generation/detection w/DTMF & FSK Format

Network Functionality

- Friendly Web-based Configuration Tool
- Remote FTP/TFTP Firmware Upgrade and Configuration Backup/restore
- Secure TFTP and HTTP Auto-provisioning (default by 3DES encryption)
- IVR for IP address and FW upgrade

NAT Traversal

- Simple Traversal of UDP over NAT (STUN, RFC3489)
- Outbound proxy
- Manual configured SIP and RTP (Fake address)

Lifeline Support (P-2301RL-P1C only)

- 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

Management

- SNMP v1 & v2c with MIB II
- Embedded FTP/TFTP Server for f/w upgrade and romfile backup and restore
- Easy Provisioning Management of TR-104 (by project)
- Remote Management Control: Telnet, FTP, Web
- UPnP support

Hardware Specifications

- Built-in TWO auto MDI/MDI-X 10/100M RJ-45 ports for LAN & WAN
- P2301R-P1C (1 FXS)
- P2301RL-P1C (1 FXS + 1 FXO)
- P2302R-P1C (2 FXS)
- Restore Factory Defaults/Reboot button

Physical Specifications

- Dimensions: 108 (W) x 33 (D) x 105 (H) mm
- Weight: 168 g

Environmental Specifications

Operation Environment

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

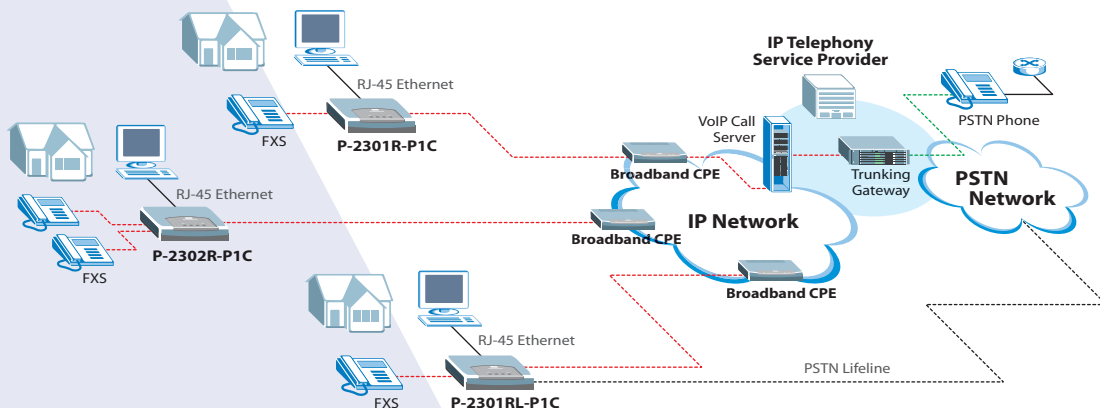
Storage Environment

- Storage Temperature: -20°C ~ 60°C
- Storage Humidity: 20% ~ 90% (non-condensing)

Product Description

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|---------------------|--|
| P-2301RL-P1C | VoIP ATA/Station Gateway with Lifeline |
| P-2301R-P1C | VoIP ATA/Station Gateway |
| P-2302R-P1C | VoIP ATA/Station Gateway |

Application Diagram



For more product information, visit us on the web www.ZyXEL.com