

ZyXEL



A VoIP ATA/Station Gateway with Rich Call Features



- Supports Open Standard SIP v.2
- Friendly Bridge/Routing Mode Support
- Effective Media Bandwidth Management
- Two Built-in Phone Jacks Enable VoIP Applications over Internet Connectivity
- Robust, State-of-the-Art Firewall Security
- Easy Installation and Management through Auto-provisioning

Benefits

Multiple Channel Technology and Multiple SIP Phone Numbers Freely Assignable to Two Phone Ports

The single box serves 2 communication lines simultaneously; and its concurrent G.729 capability on each phone port is a great solution for environments with limited bandwidth. The flexible dial mechanism and one or two communication lines can be assigned freely to 2 phone ports.

NAT Router Capability Integration

The P-2302R/RL-P Series is an inexpensive, easy to install and use, clutter-free solution to broadband users connecting to the Internet or a local area network. The users can also effortlessly configure the routing/bridge mode with WebGUI according to environment needs.

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 and State-of-the-Art Security Firewall

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. Based on Stateful Packet Inspection and Denial of Service (DoS) technology, the ICSA-certified ZyNOS operating system provides the first line of defense against hackers, network intruders, and other hazardous threats.

Easy Provisioning Management on 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.

VoIP Station Gateway

P-2302R/RL-P
SERIES

VOIP



Specifications

Hardware

- Built-in TWO Auto MDI/MDI-X 10/100M RJ-45 Ports for Ethernet & WAN
- 2 FXS POTS Interface for Analog Telephone
- 1 FXO POTS Lifeline Relay (optional)
- Restore Factory Defaults/Reboot Button

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 Support
- IP Multicasting, IGMP v1 and v2
- Dynamic DNS Support
- IP Alias

Voice Functionality

- SIP (RFC 3261) v.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
- Multiple SIP Numbers Support
- Multiple Channels Support
- Modem and Fax Tone Detection
- T.38 Fax Relay
- Polarity Reverse*
- DNS SRV*

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)
- DND (Do NOT Disturb)*
- MCID (Malicious Call Identification)*
- Call Block*
- Distinctive Ringing*
- Last Number Redial*
- COLP (Connected Line Identification Presentation)*
- COLR (Connected Line Identification Restriction)*
- Conference Call w/Media Server*
- Call Filtering*
- Call History*
- Automatic Call Return*
- MWI by e-Mail*
- Fixed Destination Call*
- 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
- 2-tier Web and Management: Admin & Guest Access Authority (customizable)
- Friendly Support Bridge/Routing Mode Configured by WebGUI

NAT Traversal

- Simple Traversal of UDP over NAT (STUN, RFC3489)
- Outbound Proxy
- Manually Configured SIP and RTP (Fake Address)

Lifeline Support (P-2302RL-P1)

- Send an 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

- Embedded FTP/TFTP Server for f/w Upgrade and Romfile Backup and Restore
- Remote Management Control: Telnet, FTP, Web
- UPnP Support
- Easy Provisioning Management of TR-104 (customizable)

Firewall Security

- ICSA Certified Firewall with Stateful Packet Inspection
- Prevent DoS Attack
- Access Control of Service
- Content Filtering: URL Blocking such as ActiveX, Java, Cookies and Web
- IP & Generic Packet Filtering
- Real-time Attack Alert and Log

Environmental Specifications

- Operating Temperature: 0°C~40°C
- Storage Temperature: 0°C~60°C
- Operating Humidity: 10%~85% RH, non-condensing
- Storage Humidity: 10%~90% RH, non-condensing

Physical Specifications

- Dimensions: 115(W) x 51(D) x 165(H) mm
- Weight: 295g

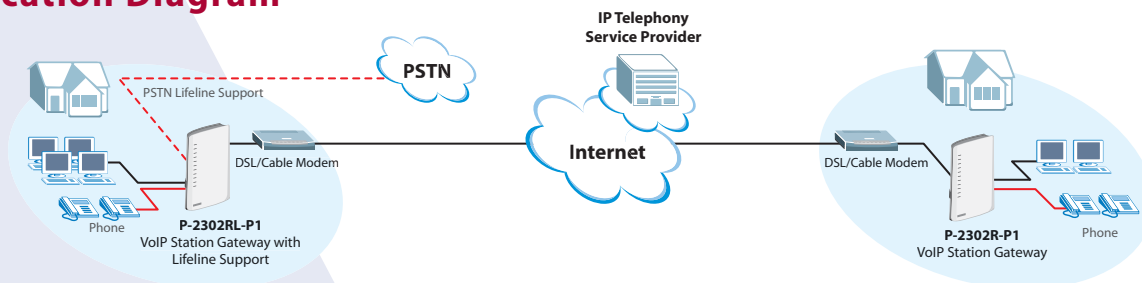
* Firmware upgradeable for future enhancement

Product Description

P-2302RL-P1 VoIP Station Gateway with Lifeline

P-2302R-P1 VoIP Station Gateway

Application Diagram



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

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