

ZyXEL



Enjoy Phone Service and Internet Sharing in a Single Box

- Easy Installation and Management through Auto-provisioning
- Effective Media Bandwidth Management Available
- 2 Built-in Phone Jacks Enable VoIP Services over Internet Connectivity
- Robust, State-of-the-Art Firewall Security
- Feature-rich Phone Features



Benefits

Sharing High-Speed Internet Access

ZyXEL P-2302R series is a broadband sharing gateway that allows the PCs on your home LAN to share resources and files with online peers, and to access the Internet through your existing DSL/Cable Router.

Enabling VoIP Phone Services

The two built-in standard phone jacks on the P-2302R series allows you to enjoy VoIP conversations while surfing the Internet. Since phone numbers given by service providers can be assigned to either each phone port individually or to two phone ports at the same time, the P-2302R series is equivalent to two phone lines, free of extra charge. This offers unprecedented flexibility and freedom for you to talk non-stop with high-speed broadband connection.

Easy to Install and Manage

Thanks to ZyXEL's exclusive Auto-provisioning mechanism, allowing the service provider to manage and configure the unit remotely to reduce the complexity and cost of deployment of CPE to end-users. To extend your non-stop telephone or broadband reach, ZyXEL P-2302R series is the most affordable solution for you to take full advantage of your home or SOHO network.

Effective Media Bandwidth Management

The P-2302R series enables network administrators to allocate network resources while guaranteeing Quality of Service (QoS). Network Bandwidth Management increases productivity and efficiency by tailoring a system to specific demands such as time-sensitive VoIP and multimedia applications.

Robust, State-of-the-Art Firewall Security

The ICSA certified ZyNOS operating system ensures state-of-the-art Firewall performance and robust security from the P-2302R series. Based on Stateful Packet Inspection and Denial of Service (DoS), it provides the first line of defense against hackers, network intruders, and other hazardous threats.

Lifeline Support (Optional)

The P-2302RL model with Lifeline support, 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.



VoIP Station Gateway

P-2302R/AL
SERIES

ROUTER



Specifications

Routing

- 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
- Multiple SIP Number Supports
- Multiple Channel Supports
- 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*
- Automatic Call Return*
- Fixed Destination Call*

Network Management

- 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
- HTTPs Auto-Provisioning (by Project)
- 2-tier Web and Management: Admin & Guest Access Authority (by Project)
- SNMP v1& v2c with MIB II
- UPnP Support

NAT Traversal

- Simple Traversal of UDP over NAT (STUN, RFC3489)

- Outbound Proxy
- Manual Configured SIP and RTP (Fake IP address)

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

Lifeline Support (P-2302RL 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

Hardware Specifications

- LAN: One 10M/100M Auto MDI/MDIX Ethernet Port
- WAN: One 10M/100M Auto MDI/MDIX Ethernet Port
- Phone: Two RJ-11 ports for Analog Telephone service
- Lifeline Port: One RJ-11 Port for PSTN Lifeline (P-2302RL model)
- Reset Button
- Status LEDs Indicator: PWR/VoIP, LAN, WAN, Phone1, Phone2
- Power: 12V AC input

Physical Specification

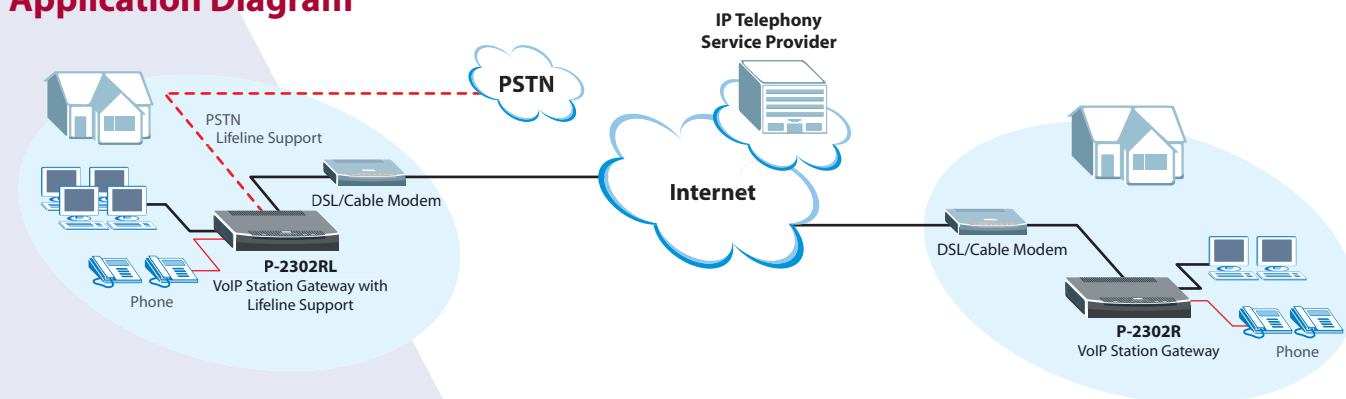
- Dimensions: 180(W) x 128(D) x 36.5(H) mm
- Weight: 312g

Environment Specification

- Operating temperature: 0°C ~ 40°C
- Operating humidity: 20% ~ 85% (Non-condensing)

* Firmware upgradeable for future enhancement

Application Diagram



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

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

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

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

ZyXEL Hungary
 Tel: +36-1-336-1646
 Fax: +36-1-325-9100
 Email: info@zyxel.hu
 http://www.zyxel.hu

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

ZyXEL Russia
 Tel: +7 (095) 542-8920
 Fax: +7 (095) 542-8925
 Email: info@zyxel.ru
 http://www.zyxel.ru

ZyXEL Sweden A/S
 Tel: +46 (0) 31 744 77 00
 Fax: +46 (0) 31 744 77 01
 Email: sales@zyxel.se
 http://www.zyxel.se

ZyXEL Ukraine
 Tel: +380 44 494 49 31
 Fax: +380 44 494 49 32
 Email: sales@ua.zyxel.com
 http://www.ua.zyxel.com

ZyXEL Czech s.r.o.
 Tel: +420 241 091 350
 Fax: +420 241 091 359
 Email: info@cz.zyxel.com
 http://cz.zyxel.com

ZyXEL Finland Oy
 Tel: +358-9-4780 8400
 Fax: +358-9-4780 8448
 Email: sales@zyxel.fi
 http://www.zyxel.fi

ZyXEL Germany GmbH.
 Tel: +49 (0) 2405-6909 0
 Fax: +49 (0) 2405-6909 99
 Email: sales@zyxel.de
 http://www.zyxel.de

ZyXEL Kazakhstan
 Tel: +7-327-2-590-699
 Fax: +7-327-2-590-689
 Email: sales@zyxel.kz
 http://www.zyxel.kz

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

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

ZyXEL UK Ltd.
 Tel: +44 (0) 1344 303044
 Fax: +44 (0) 1344 303043
 Email: sales@zyxel.co.uk
 http://www.zyxel.co.uk