



New Revenue Streams from G.SHDSL Services

- Symmetrical high-speed Internet access
- Flexibility to support EFM or ATM with a single device
- End-to-end connectivity

The ZyXEL P-791R v3 is a G.SHDSL gateway with high flexibility that supports either ATM mode or EFM mode to providing high-speed LAN-to-LAN connections and Internet access for small businesses or branch offices through G.SHDSL connection over copper lines. The device supports the latest SHDSL.bis technology with higher symmetric upstream and downstream data rates of up to 15.3 Mbps. The Rate Negotiating feature allows the P-791R v3 to adjust data rates automatically according to the quality of wire connections. The Quality of Service feature ensures smooth net connections for inbound and outbound data with minimal traffic congestion, while the rich Firewall security features such as SPI, DoS attack prevention and URL Content Filtering are also integrated to provide users with unparalleled access protection.

Benefits

Symmetrical high-speed Internet access

The ZyXEL P-791R v3 is a high-performance SHDSL.bis gateway for small/medium offices to enjoy Internet access and LAN-to-LAN applications over the existing copper lines. The P-791R v3 makes full use of advanced SHDSL.bis technology to achieve transmission data rates of up to 15.3 Mbps on two wires.

Flexibility to support EFM or ATM with a single device

The ZyXEL P-791R v3 is a G.SHDSL gateway with high flexibility to support either ATM mode or EFM mode to provide high-speed LAN-to-LAN connection and Internet access for small business or branch offices through G.SHDSL connection over copper lines.

LAN-to-LAN connectivity

User can set up a point-to-point connection between two ZyXEL P-791R v3 devices; this offers a cost-effective, high-speed connection for high-bandwidth applications such as video conferencing and long-distance.

P-791R v3
2-wire G.SHDSL.bis 1-port
Gateway



Ethernet
10/100 Mbps



Easy Switch
On/Off

Specifications

System Specifications

Routing/Bridge Support

- IP (RFC 791) routing is supported
- TCP, UDP, ICMP, IGMP v1 and v2, ARP, RIP v1, RIP v2
- Transparent bridging (IEEE 802.1D)
- PPP BCP (RFC 3185) support
- IGMP snooping

G.SHDSL

- Support ITU-T G991.2/G.994.1 standards
- TC-PAM line modulation
- Configurable as either server or client mode
- EFM/ATM auto detect
- OAM IEEE 802.3 chapter 57 compliant
- IEEE 802.3 2BASE-TL (aka 802.3ah) compliant
- Rate negotiating/manually rate adaptation configuration
- Connection loops: 1 pair (2 wires)
- Support IPoE
- Support PPPoE

ATM Support

- Multiple protocols over AAL5 (RFC1483)(Not support IPoA/PPPoA) support 1 PVC

EFM Support

- EFM mode compliant to IEEE 802.3
- PPP over Ethernet (RFC2516)
- Support of OAMPDU information and functionality (ITU-T Y.1731)
- OAMPDU event notification, variable request, variable response, loopback control
- VLAN base QOS (802.1P/Q)

Internet Access Sharing

- NAT (includes multi-to-multi NAT)/SUA, 8192 NAT sessions
- Port restricted cone NAT
- SIP ALG pass-through
- NAT server (Port forwarding)
- Multi-NAT
- Dynamic DNS (www.dyndns.org)
- DHCP server/client/relay

Security

- User authentication (PAP, CHAP) with PPP (RFC 1334, RFC 1994)
- Microsoft CHAP
- Stateful packet inspection firewall
- Content filter
- Prevent denial of service
- Access control of service
- Real-time attack alert and log

Network Management

- Web-based configuration
- Command-line interface
- Password-protected Telnet support
- SNMP MIB I/MIB II support
- TFTP & FTP firmware upgrade and configuration backup TR69

VPN

- IKE
- DES/3DES/AES encryption
- MD5/SHA1 authentication
- IPSec VPN keep-alive

Diagnostics Capabilities

- The router can perform self-diagnostic tests. These tests check the integrity of the following circuitry:
 - FLASH memory
 - SDSL circuitry
 - RAM
 - LAN ports

Others

- DNS proxy
- Syslog
- Each Ethernet port can be only tagged or only untagged

Hardware Specifications

- 1 x RJ-11 interface for 2-wire G.SHDSL WAN port
- 1 x RJ-45 auto-sensing 10M/100M Ethernet LAN port
- 1 x D-Sub 9 pin Female (DCE), RS232
- Power jack
- Power on/off switch
- Reset button
- Power consumption: 3.5 W Max.

Physical Specifications

- Item dimensions (WxDxH):
211 x 154 x 40 mm (8.31" x 6.06" x 1.57")
- Item weight: 420 g (0.93 lb.)
- Packing dimensions (WxDxH):
363 x 165 x 57 mm (14.29" x 6.49" x 2.24")
- Packing weight: 805 g (1.77 lb.)

Environmental Specifications

Operating Environment

- Temperature: 0°C to 45°C (32°F to 113°F)
- Humidity: 10% to 90% RH (Non-condensing)

Storage Environment

- Temperature: -20°C to 70°C (-4°F to 158°F)
- Humidity: 10% to 95% RH (Non-condensing)

Certification

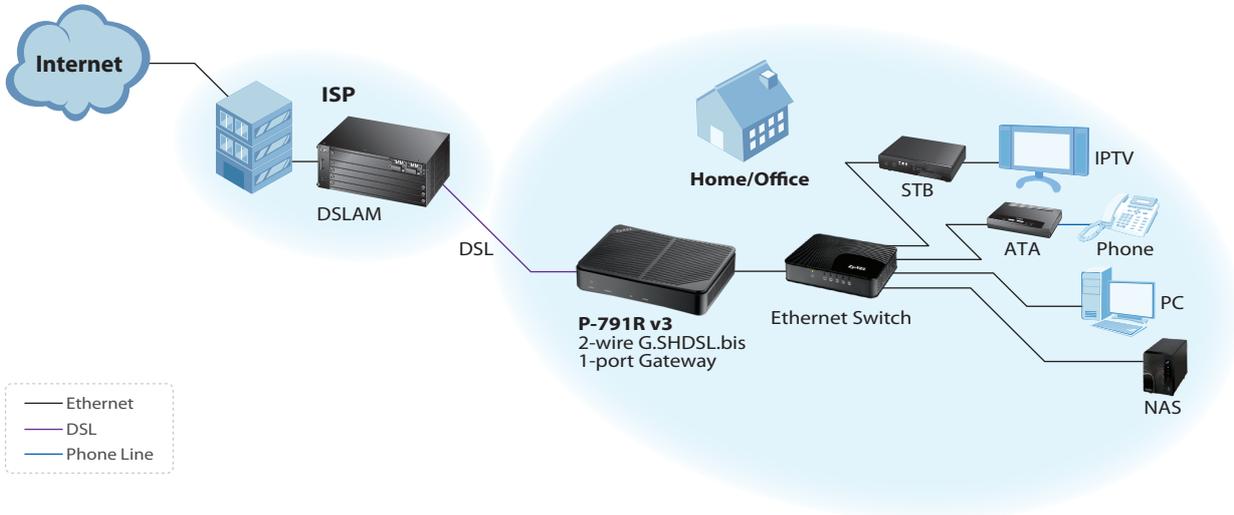
- CE

Package Contents

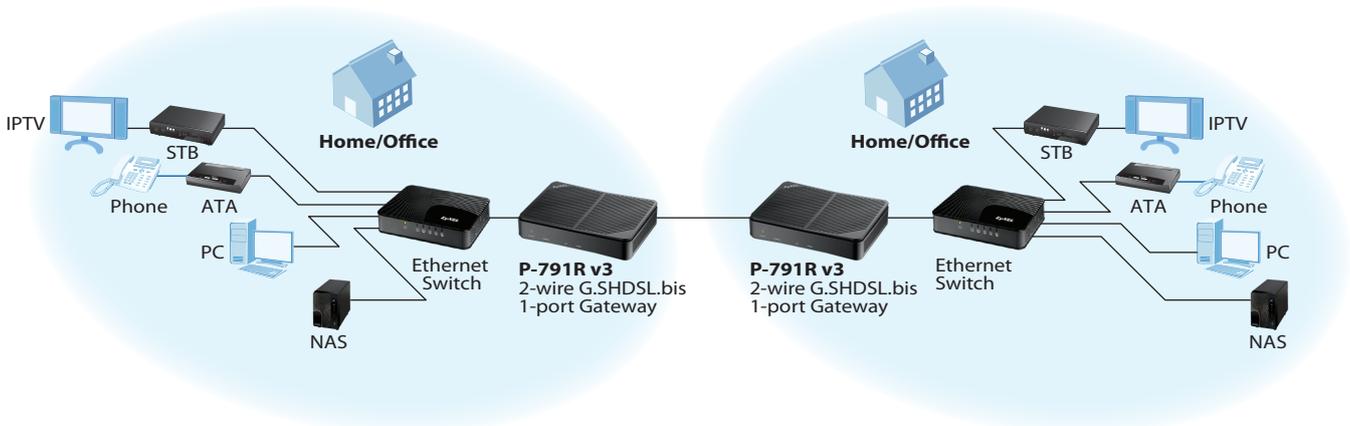
- G.SHDSL gateway
- Power adaptor
- Ethernet cable
- Phone cable
- Quick start guide

Application Diagram

Connect to DSLAM



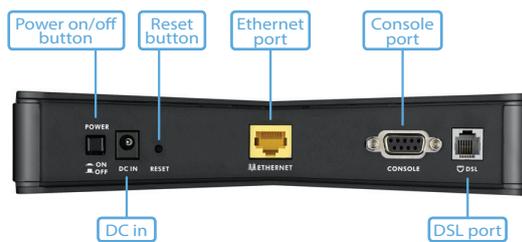
End to end connection



Front Panel



Rear Panel





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



Copyright © 2017 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.

