ZyXEL

- **Symmetrical high-speed Internet access**
- **Auto detection to support EFM or ATM with single device**
- **Point-to point connectivity**

EFM/ATM 8-wire Auto-detect G.SHDSL.bis Gateway

Benefits

Symmetrical high-speed Internet access

The ZyXEL P-794H is a high-performance G.SHDSL.bis gateway for small/medium offices to have Internet access and LAN-to-LAN applications over the existing copper line. The P-794H makes full use of the advanced G.SHDSL.bis technology with symmetric data rates of up to 5.69 Mbps, 11.38 Mbps, 17.07 Mbps, or 22.76 Mbps over standard 2-wire, 4-wire, 6-wire, or 8-wire telephone lines, respectively.

Auto detection to support EFM or ATM with single device

The P-794H is a G.SHDSL.bis gateway with high flexibility that supports ether ATM mode or EFM mode to provide high-speed LAN-to-LAN connection and Internet access for small businesses or branch offices through G.SHDSL.bis connection over the copper line.

Point-to-point connectivity

Users can set up a point-to-point connection between two P-794H devices. The feature offers a cost-effective, high-speed connection for high-bandwidth applications.

P-794H

G.SHDSL.bis 4-port Bonding Gateway

10/100 Mbps Ethernet	Firewall	TR-069	Web-based Configuration
Ethernet 10/100 Mbps	Firewall	TR-069	Web-based Configuration

P-794H
G.SHDSL.bis 4-port Bonding Gateway

Specifications

System Specifications

Router/Bridge
- NAT/PAT support
- PPPoE (RFC2516)
- IGMP v1/v2
- IGMP Proxy/fast leave/snooping
- Configurable as either server or client mode
- Support IPOA/IPOE
- DMZ support
- Support Port-based VLAN
- VPN pass-through IPSec and L2TP
- QoS support VBR-rt, VBR-nrt, CBR and UBR

G.SHDSL Compliance
- Support ITU-T G991.2/G.994.1 standards
- Support ITU-T G.998.1 (G.bond)(ISOS 10)
- Extended Rate Bonded SHDSL- (G.991.2 Annex F, G)
- TC-PAM line modulation
- EFM/ATM configurable
- OAM IEEE 802.3 chapter 57 compliant
- IEEE 802.3 2BASE-TL (aka 802.3ah) compliant
- Rate negotiating/Manually rate adaptation configuration
- 2-wire/4-wire/6-wire and 8-wire mode auto detect in either ATM mode and EFM mode
- Transmission rate up to 5.69 Mbps (2-wire mode)
- Transmission rate up to 11.38 Mbps (4-wire mode)
- Transmission rate up to 17.07 Mbps (6-wire mode)
- Transmission rate up to 22.76 Mbps (8-wire mode)
- Support Bonding based on EFM and ATM*

ATM Support
- Multiple protocols over AAL5 (RFC1483)
- PPP over ATM (RFC 2364)
- ATM AAL5 supported
- Support 8 PVCs
- ATM Forum UNI3.0/4.0 PVC
- OAM F4/F5 Loopback, RDI, AIS
- UBR CBR, and nrt-VBR traffic shaping

EFM Support
- EFM mode compliant to IEEE 802.3, G.998.2
- PPP over Ethernet (RFC2516)
- Support of OAMPDU information and functionality (ITU-T Y.1731)
- OAMPDU Loopback Control
- VLAN base QOS (802.1P/Q)

Internet Access Sharing
- 512 NAT sessions
- NAT server (Port forwarding)
- Dynamic DNS (www.dyndns.org)
- DHCP server/client/relay

Security
- User Authentication (PAP, CHAP) with PPP (RFC 1334, RFC 1994)
- Microsoft CHAP (ISOS 10)
- Stateful packet inspection firewall (SPI)
- Packet filter
- Prevent Denial of service (Dos)
- Access control of service
- Real-time attack alert and log

Network Management
- TR-069 Remote management
- Web-based Configuration
- Command-line interface (CLI)
- Password-protected Telnet support
- SNMP V1/V2c with MIB II
- TFTP & FTP firmware upgrade and configuration backup
- TR-069 HTTPS
- Secure Shell function (SSH)

Firmware upgradeable for future enhancement

Hardware Specifications
- Two RJ-11 interface for 8 wire G.SHDSL.bis WAN port
- Four auto-sensing 10M/100M Ethernet LAN ports (RJ-45)
- One Reset switch button
- One Power DC jack
- Status LEDs indicator: POWER, CO MODE, LAN, DSL, ALARM
- One CID port

Physical Specifications
- Item dimensions (WxDxH): 210 x 200 x 43 mm (8.27" x 7.87" x 1.69")
- Item weight: 849 g (1.88 lb)
- Packing dimensions (WxDxH): 321 x 240 x 73 mm (12.63" x 9.45" x 2.87")
- Packing weight: 1,459 g (3.22 lb)

Environmental Specifications

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20% to 90% RH (non-condensing)

Storage Environment
- Temperature: -20°C to 60°C (-4°F to 140°F)
- Humidity: 20% to 95% RH (non-condensing)

Certification
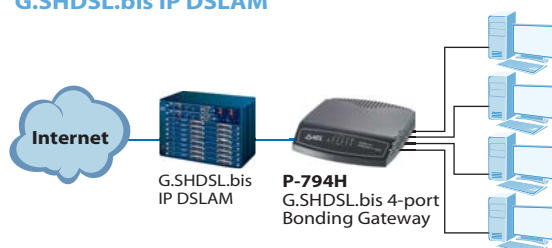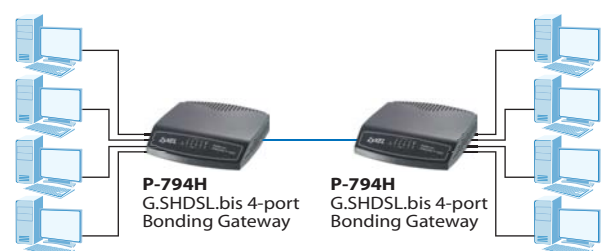- CE
- FCC Part 15 (Class B)

Rear Panel

DSL (1~4)   LAN (1~4)   CID   Reset   DC 12V

Application Diagram

Connection to G.SHDSL.bis IP DSLAM

Internet

G.SHDSL.bis IP DSLAM

P-794H G.SHDSL.bis 4-port Bonding Gateway

Extra-LAN

P-794H G.SHDSL.bis 4-port Bonding Gateway

P-794H G.SHDSL.bis 4-port Bonding Gateway

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