ZyXEL

New Revenue Streams from Fiber Optic Services

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

The ZyXEL P-793H v3 is a G.SHDSL gateway with high flexibility to support either ATM mode or EFM mode to provide 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 30.6 Mbps. The Rate Negotiating feature allows P-793H 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. The P-793H v3 also supports IPSec VPN for users to create secure data communication between two sites. 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-793H 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-793H v3 makes full use of the advanced SHDSL.bis technology to achieve symmetric transmission data rates of up to 30.6 Mbps on four wires.

Flexibility to support EFM or ATM with a single device

The ZyXEL P-793H v3 is a G.SHDSL gateway with high flexibility to support either ATM mode or EFM mode to provide high-speed LAN-to-LAN connections and Internet access for small businesses or branch offices through G.SHDSL connection over copper lines.

P-793H v3
4-wire G.SHDSL.bis 4-port Bonding Gateway with USB

| VPN | Ethernet 10/100 Mbps | Easy Switch On/Off | Printer & Storage Sharing |

LAN-to-LAN connectivity

User can set up a point-to-point connection between two ZyXEL P-793H v3 devices; this offers a cost-effective, high-speed connection for high-bandwidth applications such as video conferencing and long-distance learning.

IPSec VPN

IPSec VPN is a standards-based VPN that offers flexible solutions for secure data communications across public networks such as the Internet.

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
- Support ITU-T G.998.1 (G.bond)
- 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: 2 pair (4 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
- IPSec VPN support
- 10 VPN tunnels
- IKE
- DES/3DES/AES encryption
- MD5/SHA1 authentication
- IPSec VPN keep-alive
- IPSec NAT traversal

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 4-wire G.SHDSL WAN port
- 4 x RJ-45 auto-sensing 10M/100M Ethernet LAN ports
- 1 x USB 2.0 host
- 1 x D-Sub 9 pin Female (DCE), RS232
- Power jack
- Power on/off switch
- Reset button
- Power consumption: 10 W Max.

Physical Specifications
- Item dimensions (WxDxH): 211 x 154 x 40 mm (8.31" x 6.06" x 1.57")
- Item weight: 450 g (0.99 lb.)
- Packing dimensions (WxDxH): 363 x 165 x 57 mm (14.29" x 6.49" x 2.24")
- Packing weight: 880 g (1.94 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)
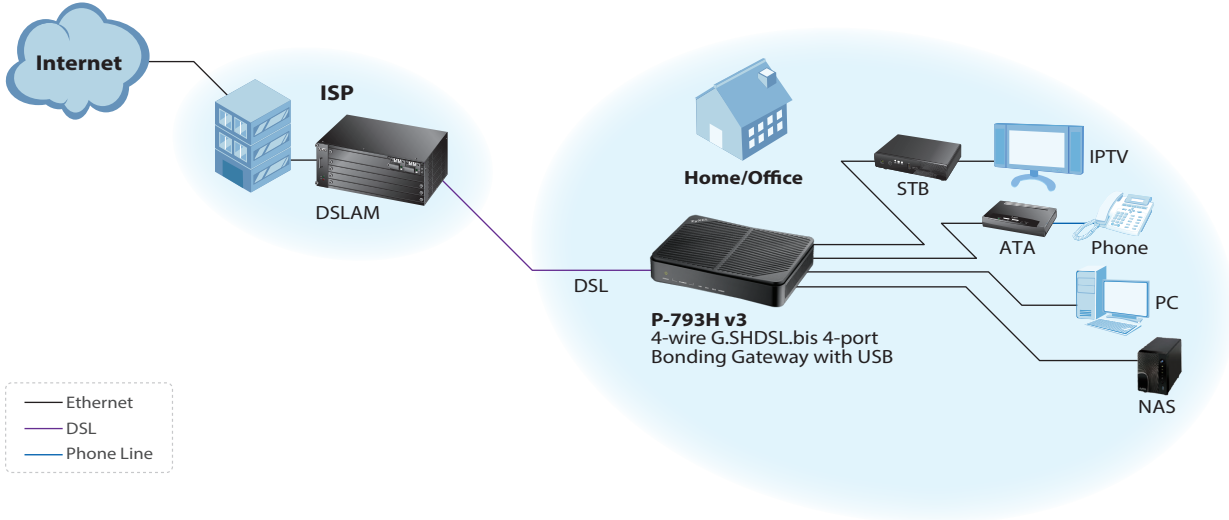- Humidity: 10% to 95% RH (Non-condensing)
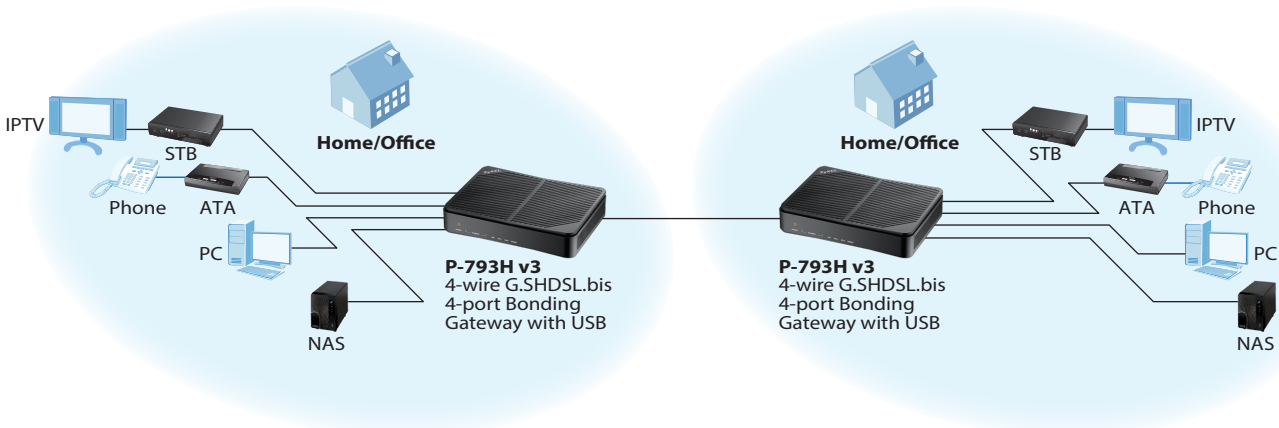
Certification
- CE

Package Contents
- G.SHDSL gateway
- Power adaptor
- Ethernet cable
- Phone cable
- Quick start guide
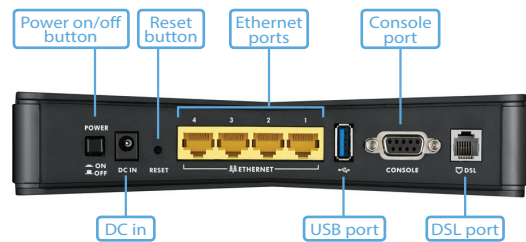
Application Diagram

Connect to DSLAM

Internet

ISP

DSLAM

DSL

Home/Office

STB

IPTV

ATA

Phone

PC

NAS

P-793H v3
4-wire G.SHDSL.bis 4-port
Bonding Gateway with USB

— Ethernet
— DSL
— Phone Line

End to end connection

IPTV

STB

Phone ATA

PC

NAS

Home/Office

P-793H v3
4-wire G.SHDSL.bis
4-port Bonding
Gateway with USB

Home/Office

P-793H v3
4-wire G.SHDSL.bis
4-port Bonding
Gateway with USB

STB

IPTV

ATA Phone

PC

NAS

Front Panel

Rear Panel

Power on/off button

Reset button

Ethernet ports

Console port

POWER

ON OFF

DC IN RESET

ETHERNET

CONSOLE

DSL

DC in

USB port

DSL port

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