ZyXEL

High-speed VDSL2 Gateway for Triple Play Services

- **High-speed Data Transmission**
- **802.11g Wireless with One-Touch Intelligent Security Technology (OTIST)**
- **Media Bandwidth Management (MBM) QoS**
- **Robust SPI Firewall Protection**
- **TR-069 Support**

Benefits

VDSL2 High-speed and High-performance Internet Access

VDSL2 is the next generation technology of VDSL, providing significantly higher bandwidth than other DSL technologies. It is designed to increase both of downstream and upstream rates as well as the reach over copper wires in order to fulfill more and more bandwidth-consuming applications in business and residential environment. Through the bandwidth increased to 30MHz in DMT modulation, Trellis/Viterbi coding, echo cancellation and VLR technology, the P-870HW Series is capable of supporting high-speed VDSL2 downstream/upstream transmission to 100/100Mbps* over the existing copper lines. The P-870HW Series with VDSL2 technology provides Triple Play services such as voice, video, data, high definition television (HDTV) and interactive gaming, and leads the users to experience the completed and the brand-new home communication/entertainment package services.

802.11g Wireless with OTIST Simple-secured Configuration

The P-870HW Series is compliant with the 802.11g wireless standard which allows data transmission speeds reach up to 54Mbps. Furthermore, ZyXEL's "One-Touch Intelligent Security Technology" (OTIST) automatically establishes the highest level of WPA-PSK security between the P-870HW Series and either a desktop or laptop computer. With the Seamless Security, the P-870HW Series guards and protects the end user from any outside threat.

Advanced Media Bandwidth Management QoS

By the sophisticated Media Bandwidth Management (MBM) application features, the P-870HW Series equips with the advanced QoS algorithms and packet prioritization and then ensures the high-quality delivery of delay-sensitive video and voice services. With the MBM QoS, end users can enjoy the video-on-demand, on-line gaming, and FTP traffic with high-quality performance in the household.

**802.11g Wireless VDSL2
4-port Gateway**

P-870HW SERIES

54 Mbps 2.4GHz 802.11 g | VDSL2 | Firewall | Media Bandwidth Management | One touch Intelligent Security Technology

ROUTER

Robust SPI Firewall Protection

The ICSA-certified ZyNOS operating system ensures state-of-art firewall performance and robust security from the P-870HW Series. Based on Stateful Packet Inspection (SPI), DoS (Denial of Service) and DDoS features, the P-870HW Series provides the first line defense against hackers, network intruders, and other harmful threats.

TR-069 Remote Manageability

Compliant with DSL's Forum's TR-069 Remote Management Specification, the P-870HW Series is highly manageable with the default Auto-Configuration Server (ACS) for auto-configuration and dynamic service provisioning, software/firmware image management, status and performance monitoring and diagnostics. By these provision value-added services, the P-870HW Series with TR-069 helps VDSL service provider reduce operation effort as well as enhance customer satisfaction.

Specifications

VDSL

- VDSL Compliant
- Duplex Method: DMT
- One VDSL Line with RJ-11/RJ-45 connector
- Ethernet over VDSL
- G.993.1 VDSL
- G.993.2 VDSL2 (Profile 8a, 8b, 8c, 8d, 12a, 12b, 17a and 30a support)
- Band Plan 997 and 998 supports
- Support 3/4/5/6 band
- Support Up to 100Mbps downstream and 100Mbps upstream*
- LR-VDSL2 support
- Power Back-off

Firewall Security

- Stateful Packet Inspection
- Prevent DoS Attack
- Policy-based Access Control
- Content Filtering
- IP & Generic Packet Filtering
- Real-time Attack Alert and Logs

Routing Support

- IP Routing: TCP, UDP, ICMP, ARP
- RIPv1 and RIPv2
- Static Route

- IP Multicast IGMP v1/v2
- IP Policy Route

IP Management

- SUA/Multi-NAT Internet Sharing
- Multimedia Support
- VPN (IPSec, PPTP, L2TP) Pass-through
- DHCP Server/Relay/Client
- DNS Proxy
- Dynamic DNS
- UPnP Support

Network Management

- Web based Configuration
- Command-line Interpreter (CLI)
- Telnet Remote Management
- SNMP Support
- FTP/TFTP firmware upgrade and configuration backup/restore
- Built-in Diagnostic Tool
- Traffic Redirect
- Media Bandwidth Management (MBM)
- TR-069

WLAN Features

- IEEE 802.11g Compliance
- 64/128 Bits WEP Encryption

- WPA (Wi-Fi Protected Access), WPA2
- WPA-PSK, WPA2-PSK
- External RADIUS server Support
- MAC Address Filtering
- OTIST (One-Touch Intelligent Security Technology)

Hardware Specifications

- DSL: One RJ-11 or RJ-45 Port
- LAN: 4-Port Switch, 10/100M Auto MDI/MDIX
- Antenna: 2dbi
- Reset/OTIST Button
- Status LEDs Indicator
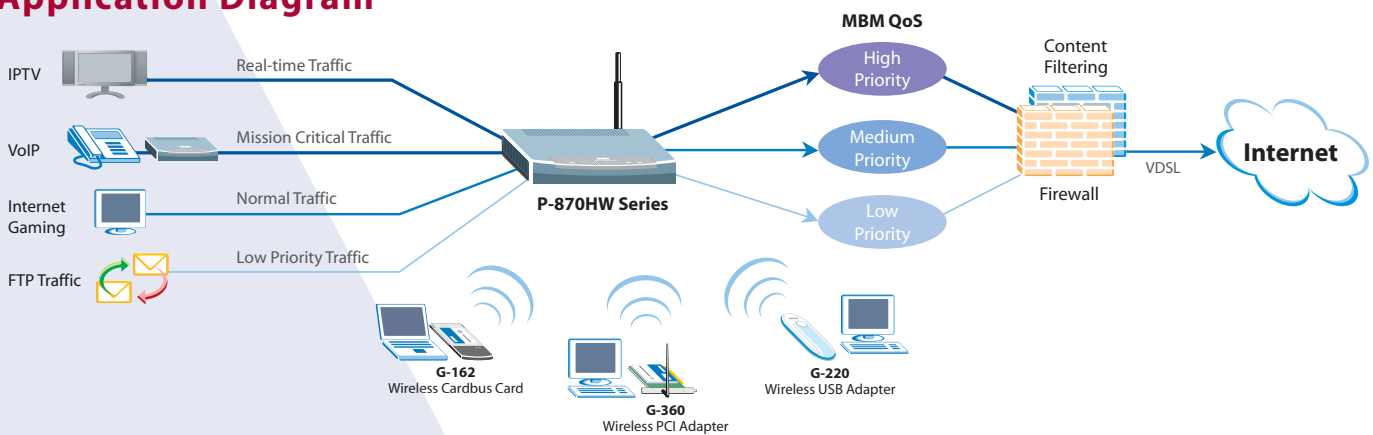- Power: 12V AC, 1.3A

Physical Specifications

- Dimensions: 205 (W) x 160 (D) x 45 (H) mm
- Weight: 470 g

Environmental Specifications

- Temperature: $0^{\circ}C \sim 40^{\circ}C$
- Humidity: 20% ~ 85 % (non-condensing)

*100/100Mbps support upon request

Application Diagram

IPTV — Real-time Traffic
VoIP — Mission Critical Traffic
Internet Gaming — Normal Traffic
FTP Traffic — Low Priority Traffic

P-870HW Series

MBM QoS
High Priority
Medium Priority
Low Priority

Content Filtering
Firewall
VDSL
Internet

G-162 Wireless Cardbus Card
G-360 Wireless PCI Adapter
G-220 Wireless USB Adapter

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

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