

ZyXEL



High Performance VDSL2 Bonding 11n Gateway

- VDSL2 Pair-bonding Supports Up to 12MHz Profiles
- VDSL2 with ADSL2+ Fallback in both Bonding and Single-Line
- Combo Gigabit Ethernet WAN Assignable as 5th LAN Port
- Built-in HPNA 3.1 Adapter for Multimedia Streaming (P873HNUP)
- High Powered 300Mbps* 802.11n Access Point with 26dBm EIRP
- Firewall Security

Benefits

VDSL2 Channel Bonding for Maximum DSL Speeds at Extended Distances

ZyXEL utilizes VDSL2 channel bonding in its P873HNU/P VDSL2 Bonding Gateway, delivering enhanced DSL speeds nearly everywhere within a provider's network, improving service offerings and customers reached.

Flexible Deployment with Multiple DSL Options

The P873HNU/P works virtually anywhere you place it in your DSL network with full auto-detection between VDSL2 bonded or single-line, ADSL2+ fallback, and PTM/ATM support in all modes.

Gigabit Ethernet WAN / LAN Port

Aiding migrations from copper to fiber, the P873HNU/P includes a dedicated Gigabit Ethernet WAN port, allowing for a single CPE on either network. When operating in DSL mode, this port works as a Gigabit 5th LAN port.

Built-in HPNA 3.1 Adapter for Multimedia Streaming (P873HNUP)

Ideal for provisioning IPTV services, the P873HNUP comes with a built-in HPNA3.1 coax adapter for instant connectivity with set top boxes and other coax-enabled devices in the home network.

High Powered 802.11n Wireless Connectivity

High-powered 300Mbps* 802.11n technology with 26dBm EIRP provides the ultimate solution: improved speed, reduced dead zones, and extended coverage delivering stable and reliable wireless connections.

IPv6 Support

The P873HNU/P builds upon ZyXEL's legacy of IPv6 support with IPv6/IPv4 Dual Stack and IPv6 Rapid Deployment (RD) covering service provider's transitions from IPv4 to IPv6 with ease.

TR-069 Support

Built-in TR-069 support allows service providers to remotely manage and configure the devices and provision new services, reducing costs while improving customer satisfaction.

Quality of Service and Firewall Security

ZyXEL's superior routing features include Quality of Service (QoS) with tag processing, priority queuing and scheduling, alongside an advanced Stateful Packet Inspection firewall for protection against Internet threats.



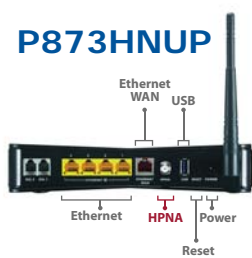
**P873HNUP/
P873HNU**
VDSL2 Bonding
Wireless N
Gateway

Microsoft
Mediaroom

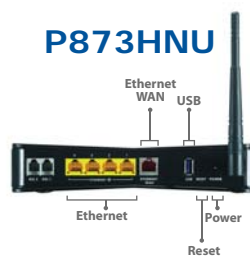




P873HNUP



P873HNU



VDSL2 Bonding Wireless N Gateway

Specifications

System Specifications

VDSL Compliance

- ITU.T G.993.2 VDSL2
- 100 Mbps/45 Mbps downstream/upstream rate
- Dual latency
- INP value up to 16
- PhyR PHY Level Retransmission Technology
- One firmware supports 6 operation modes
- VDSL2 bonding up to 12 MHz profiles
- VDSL2 single line up to 17 MHz profile
- Auto detect VDSL2 bonding and single line modes with fallback to ADSL2+ in both modes

ADSL Compliance

- G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2), G.992.5 (ADSL2+) compliant, Annex A, L and M
- ADSL physical connection ATM AAL5 (ATM Adaptation Layer type 5)
- Support multi-protocol over AAL5 (RFC2684/1483)
- ADSL2+ bonding mode with ATM
- Auto detection between ATM and PTM in ADSL2+ bonding and single line modes

IEEE 802.11n Compliance

- Frequency: 2.4 GHz
- Data rate: 300 Mbps*
- 26dBm EIRP (400mW)
- Backward compatible to 802.11b/g
- 64/128 bits WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access) Security
- WPS (Wireless Protected Setup)
- WDS (Wireless Distribution System)

Router

- IPv6 / IPv4 Dual Stack
- IPv6 Rapid Deployment (RD)

- NAT (includes multi-to-multi NAT)/SUA
- Dynamic DNS
- DHCP client/server/relay with DHCP option 60
- PPPoE, PPPoA
- RIP I/RIP II
- IGMP v1, v2, v3
- IGMP Proxy Snooping
- UPnP

USB

- USB is reserved for future use

Firewall/Security

- Stateful Packet Inspection (SPI)
- Denial of Service (DoS) Prevention
- Multiple VPN (IPSec, PPTP) pass-through
- Packet Filtering
- URL keyword blocking
- Parental Controls

QoS

- Support flexible packet classification
- Support Tag Processing (802.1p/802.1q, DSCP)
- Priority Queuing and Scheduling

Management

- Embedded web configuration
- TR-069, TR-098 remote management
- TR-064 local management
- Logs and statistics
- Command Line Interpreter (CLI) via Telnet

Hardware Specifications

- WAN:
 - Two RJ-11 port for VDSL2/ADSL2+ over POTS
 - One RJ-45 port for Gigabit Ethernet, 10/100/1000Base-T

- LAN:
 - Four RJ-45 ports for Fast Ethernet, 10/100Base-T
- Wireless LAN:
 - One external 2 dBi antenna and one internal 2 dBi antenna
- HPNA interface: One coaxial F-connector for HPNA 3.1(P873HNUP)
- USB: One type-A USB connector for USB 2.0 host interface
- WLAN/WPS button:
 - One push button for WLAN on-off and WPS configuration
- Reset: Recessed push button (Reset & factory default)
- Status LEDs indicator: POWER, ETHERNET, ETHERNET WAN, USB, DSL, INTERNET, WLAN/WPS
- Power input: 12 V DC 1.5 A

Physical Specifications

- Item weight: 1.02 lb (460 g)
- Item dimensions:
 - 1.57" (W) x 6.06" (D) x 8.27" (H) inches
 - [40 (W) x 154 (D) x 210 (H) mm]
- Item and package weight: 2.08 lb (941 g)
- Package dimensions:
 - 2.6" (W) x 8.86" (D) x 10.63" (H) inches
 - [66 (W) x 225 (D) x 270 (H) mm]

Environmental Specifications

Operating Environment

- Temperature: 32°F ~ 104°F (0°C ~ 40°C)
- Humidity: 20% ~ 85% RH (non-condensing)

Storage Environment

- Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Humidity: 20% ~ 90% RH (non-condensing)

Certification

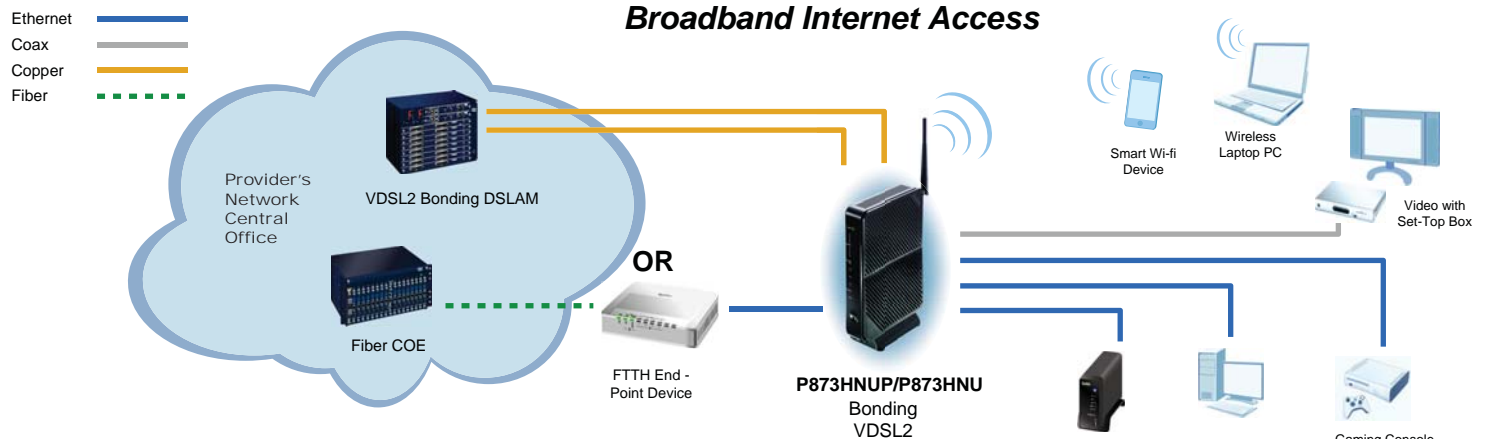
EMC

- FCC Part 15 (Class B)

Safety

- UL 60950-1

Application Diagram



*300M wireless data transfer rate is theoretical. The actual data transfer rate may vary depending on the network environment

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



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