

ZyXEL



Power Up Home Networking with HomePlug AV-Based ADSL2+ Gateway

200Mbps
HomePlug



- ADSL2+ High-speed Internet Access
- Data Rate of up to 200 Mbps* over the Power Line
- HomePlug AV Compliant
- Advanced 128-bit AES Security Protection
- Wi-Fi Multimedia (WMM) Support for Quality of Video & Voice Streaming over Wireless Connection

Benefits

200 Mbps* High Data Rate via Power Lines with Inherent QoS

Compliant with the latest HomePlug AV technology, the P-660HWP Series provides the best solution for IPTV, file sharing, gaming, voice, and video services requiring high bandwidth. The data rate can reach up to 200 Mbps* via existing power lines to fully satisfy any application needs. The quality of HDTV and voice transmissions through power lines is also guaranteed by the inherent QoS with four priority levels.

Extended LAN Solution through Power Lines

The ZyXEL Powerline is an extended access solution that allows your house or small office to be completely networked with existing power lines. Simply connect the P-660HWP Series to an existing power socket to transform electrical lines into a house-wide network infrastructure without additional cables.

Robust Security Protection

The ICSA-compliant ZyNOS operating system ensures state-of-the-art firewall performance and robust security features. Including Stateful Packet Inspection, Denial of Service (DoS) and Distributed DoS (DDoS) features, the P-660HWP Series provides the first line of defense against hackers, network intruders and other harmful threats. The Powerline transmission is also protected by 128-bit AES encryption to secure Internet access and network resource sharing.

Advanced Media Bandwidth Management (MBM) QoS

With ZyXEL MBM (Media Bandwidth Management), users can now tell the P-660HWP Series to decide which services get more bandwidth. Fine-tuning bandwidth allocation eliminates lag caused by impaired bandwidth utilization; performance and service quality of bandwidth-sensitive applications like VoIP, gaming, or P2P will enjoy a significant boost in speed.

* The HomePlug AV standard is 200 Mbps data rate via power line, actual performance may vary depends on real environment.



802.11g HomePlug AV
ADSL2+ Gateway

P-660HWP SERIES

HOMEPLUG



Specifications

System Specifications

ADSL

- ADSL (ANSI T1.413, Issue 2)
- G.dmt ADSL over POTS (G.992.1 Annex A)
- G.dmt ADSL over ISDN (G.992.1 Annex B and U-R2)
- ADSL2 G.dmt.bis (G.992.3)
- ADSL2+ (G.992.5)
- Reach-Extended ADSL (RE ADSL)

HomePlug

- HomePlug AV Compliant
- 200 Mbps* Data Rate
- Built-in Integrated Quality of Service (QoS)
- Modulation:
 - OFDM Symbol Modulation
 - Supports QAM 256/64/16, QPSK, BPSK and ROBO Carrier modulation schemes
 - Frequency Band: 2 MHz ~ 30 MHz
- GUI Configuration Interface
- 128-bit AES Link Encryption with Key Management
- Co-existence with HomePlug 1.0 Nodes

ATM

- Support up to 8 PVCs
- ADSL Physical Connection ATM AAL5 (ATM Adaptation Layer type 5)
- Support Multi-protocol over AAL5 (RFC 1483/2684)
- VC-based and LLC-based multiplexing
- Traffic Shaping UBR, CBR, VBR-nrt
- ATM Forum UNI 3.1/4.0 PVC
- ITU-T 1.610 F4/F5 OAM

Routing/Bridge Support

- IEEE 802.1d Transparent Bridging
- 802.1q Pass-through Bridge
- Up to 256 MAC Learning Address
- IP Routing: TCP, UDP, ICMP, ARP

- RIP v1 and RIP v2
- Static Route
- IP Multicasting, IGMP v1 and v2

IP Management

- SUA/Multi-NAT Internet sharing
- VPN (IPSec, PPTP) pass through
- VoIP SIP Pass-through
- DNS Proxy
- Dynamic DNS
- DHCP Server/Relay/Client
- UPnP Support

Security

- Stateful Packet Inspection Firewall
- Prevent DoS, DDoS Attack
- Content Filtering
- Password-protected System Management Terminal
- PAP (Password Authentication Protocol)
- CHAP (Challenge Handshake Authentication Protocol)

Wireless

- Compliant with IEEE 802.11b/802.11g
- Wireless g+ SuperSpeed Technology
- 64/128/256 bit WEP Encryption
- MAC Address Filtering
- WPA, WPA-PSK/TKIP
- WPA2
- WMM (Wireless Multimedia)
- Multi-ESSID, Full Channels Support

Advanced

- MBM (Media Bandwidth Management) QoS
- Zero Configuration
- TR-069 Support

Hardware Specifications

- DSL interface
 - RJ-11 Connector for P-660HWP Series over POTS
 - RJ-45 Connector for P-660HWP Series over ISDN/U-R2
- LAN interface
 - 4-port Switch, 10/100M Auto MDI/MDIX
- Reset Button
- Antenna: 3 dBi
- Status LED Indicator
 - POWER, ETHERNET, WLAN, DSL, INTERNET, POWERLINE
- Power: 100 V ~ 240 V AC, 50 ~ 60 Hz

Physical Specifications

- Dimensions: 250 (W) x 170 (D) x 36 (H) mm
- Weight: 610 g

Environmental Specifications

Operation Environment

- Temperature: 0°C ~ 40°C
- Humidity: 20% ~ 85%

Storage Environment

- Temperature: -20°C ~ 60°C
- Humidity: 20% ~ 90%

Product Description

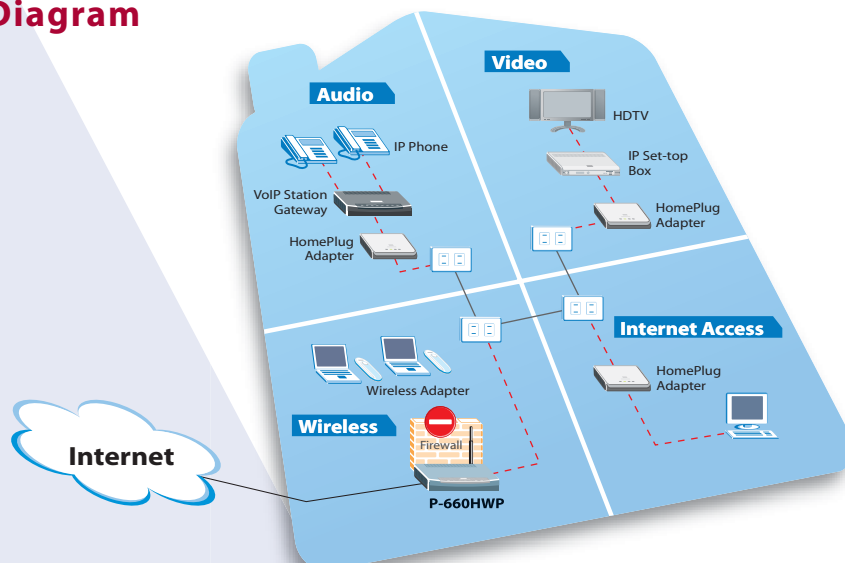
P-660HWP-D1

802.11g HomePlug AV ADSL2+ Gateway over POTS

P-660HWP-D3

802.11g HomePlug AV ADSL2+ Gateway over ISDN/U-R2

Application Diagram



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