

# ZyXEL



## Cost-effective High-Speed Wireless ADSL2+ Gateway for SOHO Networks



- **ADSL2/ADSL2+ High-speed Internet Access**
- **Wireless g+ SuperSpeed Offers the Optimal 802.11g Wireless Range and Performance of Data Rates up to 125 Mbps**
- **Zero Configuration Technology Automatically Connects to Your Internet Services**
- **Firewall with Stateful Packet Inspection (SPI) and Denial of Service (DoS) Prevention**

### Benefits

#### Higher Speed Internet Access and Wider-range Wireless LAN Connectivity

ZyXEL P-660HW Series is an all-in-one affordable router, compatible with high-speed ADSL, ADSL2 and ADSL2+ interfaces over existing copper lines. With speed up to 12 Mbps (ADSL2) or 24 Mbps (ADSL2+), the P-660HW Series offers higher data transfer rates and better bandwidth than traditional ADSL gateways. With ZyXEL's Wireless g+ SuperSpeed technology, the P-660HW Series delivers unbeatable wireless transmission speeds at up to 125 Mbps\*. This makes the P-660HW Series your first choice in expanding your network reach.

#### Zero Configuration Technology

With Zero Configuration technology, the P-660HW Series installation is quick and simple, allowing users to hook up a DSL connection without hassle.

#### Media Bandwidth Management (MBM™) Quality of Service (QoS)

The P-660HW Series enables network administrators to allocate network resources and to guarantee Quality of Service (QoS). The Media Bandwidth Management (MBM) function prioritizes media services, and increases productivity and efficiency in daily operations by tailoring a system to specific demands such as VoIP, video streaming, video-conferencing or MP3 applications.

#### Easy Setup with Multimedia Auto Provisioner Express (MAP Express)

The MAP Express mechanism offers the P-660HW Series a friendly and quick installation GUI. With ZyXEL's "MAP Express Install 1-2-3" installation guide, the configuration can be done in a snap, and its rich audio and visual aids are even fun to use.

\*125 Mbps, as opposed to the standard 54 Mbps speed of 802.11g and 11 Mbps of 802.11b, actual performance may vary depends on real environment.



802.11g Wireless ADSL2+  
4-port Gateway

P-660HW SERIES

GATEWAY



## Specifications

### ADSL Compliance

- ANSI T1.413 Issue 2
- ITU G.992.1 G.dmt
- ITU G.992.2 G.lite
- ITU G.994.1 G.hs
- ITU ADSL2 G.992.3, G.992.4
- ITU ADSL2+ G.992.5
- Reach-Extended ADSL (RE ADSL)

### ATM Support

- ATM Forum UNI 3.1/4.0
- 8 PVCs Support
- RFC 1483/2684 Multiple Protocol over AAL5
- RFC 2364 PPP over AAL5
- RFC 2516 PPP over Ethernet
- VC and LLC Multiplexing
- ATM QoS UBR, CBR, VBR
- I.610 OAM F4/F5 Loop-back, AIS, and RDI OAM Cells

### Firewall Security

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

### Routing Support

- IEEE 802.1d Transparent Bridging
- IP Routing: TCP, UDP, ICMP, ARP
- RIPv1 and RIPv2
- IP Multicast IGMP v1/v2
- IP Policy Route

### IP Management

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

### Network Management

- Web-based Configuration
- Telnet Remote Management
- FTP/TFTP for Firmware Upgrade and Romfile Backup and Restore
- SNMP Support
- Built-in Diagnostic Tool

### WLAN Features

- 802.11g Compliance Speed Up to 54 Mbps
- Comply with 802.11b
- 64/128/256 Bits WEP Encryption
- Dynamic WEP Key
- 802.1x Port-based Authentication
- WPA (Wi-Fi Protected Access), WPA2
- WPA-PSK, TKIP
- External RADIUS Server Support
- MAC Address Filtering
- WMM (Wi-Fi Media Management) Support

### Advanced Features

- Zero Configuration
- Traffic Redirect
- Media Bandwidth Management (MBM)
- One Touch Intelligent Security Technology (OTIST)
- Multimedia Auto Provisioner (MAP)

### Hardware Specifications

- ADSL: One RJ-11 or RJ-45 Port
- LAN: 4-port Switch, 10/100M Auto MDI/MDIX
- Reset Button
- Status LEDs Indicator
- Power: 12 V AC 1 A
- Fixed Antenna

### Physical Specifications

- Dimensions: 180 (W) x 128 (D) x 36 (H) mm
- Weight: 325 g

### Environmental Specifications

#### Operation Environment

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

#### Storage Environment

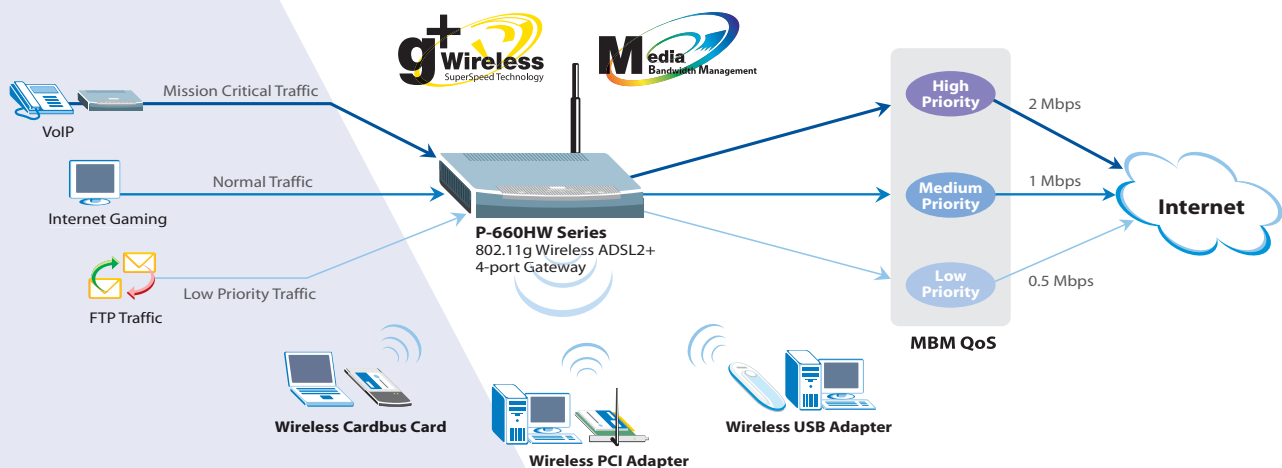
- Temperature: -20°C ~ 60°C
- Humidity: 20% ~ 90% (non-condensing)

## Product Description

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| <b>P-660HW-T1</b>    | 802.11g Wireless ADSL2+ 4-port Gateway over POTS      |
| <b>P-660HW-T3</b>    | 802.11g Wireless ADSL2+ 4-port Gateway over ISDN/U-R2 |
| <b>P-660HW-T1 v2</b> | 802.11g Wireless ADSL2+ 4-port Gateway over POTS      |
| <b>P-660HW-T3 v2</b> | 802.11g Wireless ADSL2+ 4-port Gateway over ISDN/U-R2 |
| <b>P-660HW-D1**</b>  | 802.11g Wireless ADSL2+ 4-port Gateway over POTS      |
| <b>P-660HW-D3**</b>  | 802.11g Wireless ADSL2+ 4-port Gateway over ISDN/U-R2 |
| <b>P-660HW-D1 v2</b> | 802.11g Wireless ADSL2+ 4-port Gateway over POTS      |
| <b>P-660HW-D3 v2</b> | 802.11g Wireless ADSL2+ 4-port Gateway over ISDN/U-R2 |

\*\* When the Wireless g+ SuperSpeed technology is enabled, the theoretical data rate can reach up to 125 Mbps among Wireless g+ SuperSpeed-enabled access points and clients. Actual performance may vary depending on different operating environments.

## Application Diagram



For more product information, visit us on the web [www.ZyXEL.com](http://www.ZyXEL.com)