

# Prestige 650H/ 650HW Series

## ADSL Router with 4-port Switch /Wireless LAN



- Models:**
- ▣ Prestige 650H ADSL Router with 4-port Switch over POTS
  - ▣ Prestige 650H ADSL Router with 4-port Switch over ISDN
  - ▣ Prestige 650HW ADSL Router with 4-port Switch/Wireless LAN over POTS
  - ▣ Prestige 650HW ADSL Router with 4-port Switch/Wireless LAN over ISDN

The new ZyXEL Prestige 650H/650HW series is an ideal solution for SOHO users who require super-fast Internet access, or LAN-to-LAN connections over existing copper wires. The Prestige 650H/650HW series, an ADSL-based router with an integrated 4-port 10/100 Mbps switch, provides maximum speeds of up to 8Mbps for up to 4 computers without the extra cost of a hub or switch. The optional wireless LAN is ideal for SOHO or SMB customers. It brings you the high-speed Internet experience wirelessly to make your network more flexible and efficient.

### Benefits

#### Built-in PPPoE Solution

Incorporating ZyXEL's first-in-the-world PPPoE implementation, the Prestige 650H/650HW series enables service providers and users to make use of existing PPP/PAP/CHAP based authentication and accounting infrastructure. Users don't need to pay extra for PPPoE software to enjoy the benefits of PPPoE.

#### An Instant LAN with an Integrated 10/100Mbps Switch

The combination of a switch and router makes the Prestige 650H/650HW series more efficient and less expensive than having to purchase separate boxes. The built-in switch provides each connection a dedicated 10/100 Mbps bandwidth that greatly increases the throughput for bandwidth-sensitive applications as opposed to having to use a hub where the bandwidth would be inefficiently shared by all of the stations. The industry-standard HP Auto MDI/MDIX feature enables the on-chip transceivers to automatically and transparently detect and correct incorrectly wired cables. This makes installation, debugging, and maintenance of the network substantially simpler and less expensive for the end users.

#### Powerful Multi-to-Multi NAT and Routing Features for Internet Access Sharing

The multimedia-aware NAT (Network Address Translation) feature not only allows an unlimited number of users to access the Internet with a single ISP account, but it also supports multimedia applications such as NetMeeting, CUSeeMe, IRC, RealPlayer and ICQ. With PPP routing and robust security features, the Prestige 650H/650HW series connects your computers to the Internet while protecting your local network.

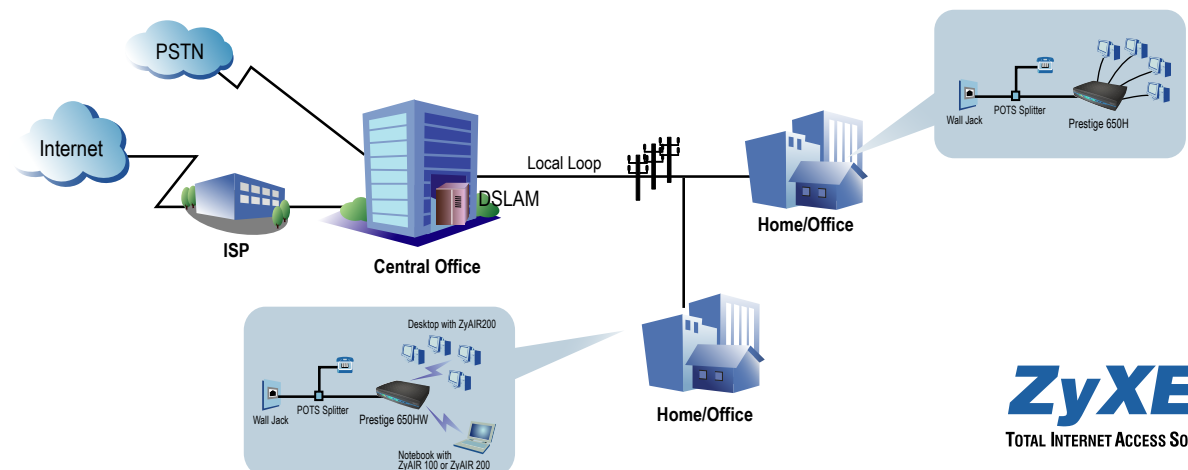
#### Ease of Use and Management

The Web-based Graphical User Interface (GUI) allows easy installation of the Prestige 650H/650HW series and effortless management, either locally or remotely. With the built-in DHCP server, which automatically assigns and configures IP parameters to the computers on your LAN, Internet connections become truly plug-and-play.

#### Optional Wireless LAN Solution (Prestige 650HW only)

The optional wireless LAN solution offers quick and easy access to a traditional wired Ethernet LAN in the office or home. The wireless LAN is also an extension of existing Ethernet LANs, which extends your network connection and provides the ultimate advantage of mobility.

### Application Diagram



## Features & Specifications

### ADSL Compliance

- Multi-Mode ADSL Standard
- RADSL (DMT T1.413 Issue 2)
- G.dmt (ITU G.992.1)
- G.lite (ITU G.992.2)
- G.hs (ITU G.994.1)
- ADSL over ISDN
- G.dmt (ITU G.992.1 Annex B)
- Auto-negotiating rate adaptation

### ATM Protocols

- ADSL physical layer support ATM Adaptation Layer Type 5
- (AAL5)
- Multiple Protocol over AAL5 (RFC 1483)
- VC and LLC based multiplexing
- ATM Forum UNI3.1/4.0 PV
- Up to 8 PVCs
- Virtual Circuit Traffic Shaping-UBR,CBR
- OAM F4/F5

### PPP Support

- PPP (RFC 1661)
- PPP over AAL5 (RFC 2364)
- PPP over Ethernet (PPPoE, RFC 2516)
- Call Scheduling

### Bridging

- IEEE 802.1d transparent bridging
- Up to 128 MAC learning addresses

### Internet Access Sharing (Router only)

- SUA (Single User Account)/Multi-to-Multi NAT (Network Address Translation): enables multiple computers on the LAN to access the Internet for the cost of only one IP address
- NAT supports PAT (Port Address Translation) and multimedia applications, ie., NetMeeting, ICQ, CuSeeMe, IPsec, etc.

### Routing Protocols

- IP Routing
- RIP1, RIP2 and Static Route
- IP Alias
- DHCP server and DHCP client
- DNS Relay
- IP Policy Routing
- IGMP for IP Multicast

### Management

- Web-based Graphical User Interface for easy installation and management
- Menu-driven user's interface for text-based management
- Text-based management that is accessible via telnet
- TFTP (Trivial File Transfer Protocol) and FTP for firmware upgrade, configuration backup and restore
- SNMP MIB support

### Security

- Packet Filtering for controlled access to and from your LAN
- PAP (Password Authentication Protocol), CHAP (Challenge Handshake Authentication Protocol) and Microsoft CHAP

### Wireless Access Point (Prestige 650HW only)

- Built-in 11 Mbps wireless Access Point
- IEEE 802.11b standard compliance
- Direct Sequence Spread Spectrum (DSSS) operating at unlicensed 2.4 GHz ISM band
- 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps data rates and auto-fallback support
- Wired Equivalent Privacy (WEP) data encryption
- Seamless roaming with IEEE 802.11b wireless LAN infrastructure
- Diagnostic, Statistics and Traffic Monitor

### Physical Specifications

- Dimensions: 206mm(L) x 161mm(D) x 51mm(H)
- Weight: 510g (without wireless LAN card)

### Physical Interface

- One RJ-11 port or RJ-45 port for ADSL connection
- One RJ-45 connectors for an IEEE 802.3u 10/100M LAN connection
- One PCMCIA Slot for Wireless LAN Card connection (Prestige650HW only)

### Power Requirement

- Power requirement: 12VAC
- AC input voltage: 100 to 120 VAC, 200 to 240 VAC
- Frequency  $\pm$  3 Hz
- Power consumption  $\leq$  12W

### Operating Environment

- Temperature: 0-50°C
- Humidity: 20-95% (non-condensing)

### Optional Parts

- Microfilter
- POTS Splitter
- Wireless LAN Card (Prestige 650HW only)

### 2-Year Warranty



**ZyXEL**  
TOTAL INTERNET ACCESS SOLUTION

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