

Prestige 645 Series

Multi-Mode ADSL Bridge/Router



Models: Prestige 645R Multi-Mode Router
Prestige 645M Multi-Mode Bridge

ADSL (Asymmetric Digital Subscriber Line) is the hottest technology for Broadband Internet Access as well as for providing voice services simultaneously on the same copper line. ADSL line rate using DMT line coding supports up to 8M/1.5M bps downstream, which is more than 140 times faster than analog modems, and 800k/512k bps upstream for Full-Rate (T1.413 Issue2 and G.dmt) / G.Lite standard. This asymmetric nature makes it ideal for the SOHO environment, where the downstream traffic is typically much higher than the upstream traffic. Users can now enjoy multi-media and real time applications such as online gaming, video conferencing and other bandwidth-consuming services by subscribing to ADSL.

Benefits

Multiple-flavor ADSL Standard

The Prestige 645 series offers auto-sensing between Full-Rate and G.Lite standards according to Central Office switch or DSLAM (Digital Subscriber Line Access Multiplier) so a user can easily be upgraded from a G.Lite service to a Full-Rate service or vice versa without the cost of a new ADSL modem or router.

Plug-and-Play Connectivity

Pre-configured with service provider's settings, the Prestige 645 series can be automatically installed and work with your ADSL connection without any manual configuration.

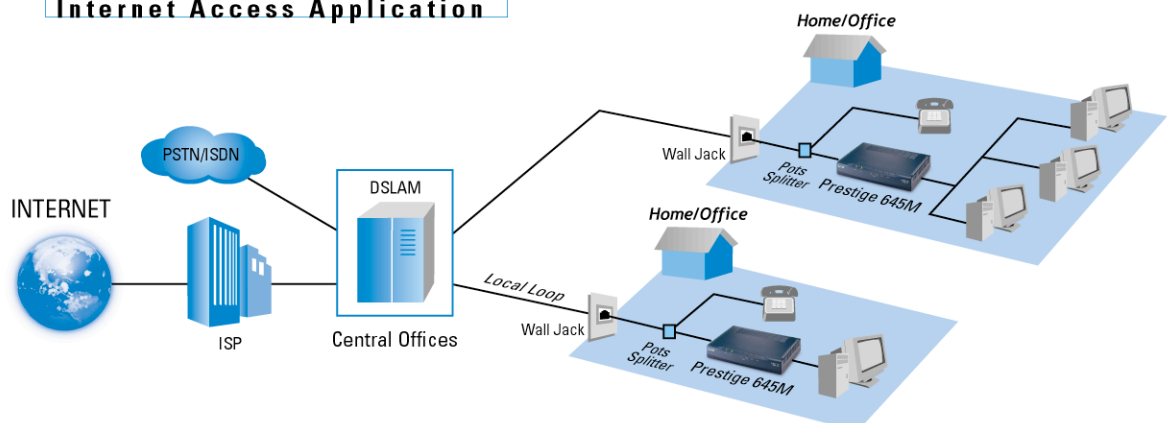
First PPPoE Implementation in the World for Virtual Dial Up

Incorporating ZyXEL's first-in-the-world PPPoE implementation, The Prestige 645 series enables users as well as service providers to make use of the existing dial-up Internet infrastructure. It makes the Internet services charge by usage time, similar to the dial-up scenario. Users don't need to pay extra for PPPoE software while still enjoying the benefit of PPPoE.

Ease of Use and Management

The Prestige 645's SMT(System Management Terminal) and the embedded Web-based configurator makes the configuration easier for the users while saving time and support effort for service providers.

Internet Access Application



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)
- 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 PVC
- Up to 8 PVCs-UBR
- OAM F4/F5

PPP Support

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

Bridging

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

Internet Access Sharing (Router only)

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

Routing Protocols (Router only)

- IP/IPX Routing -RIP1, RIP2 and static route
- IP Alias
- DHCP server, DHCP client and DHCP relay
- DNS relay
- IP Policy Routing
- IGMP for IP multicast

Management

- Menu-driven user's interface for text-based management
- Optional Web-based configuration
- Text-based management that can be configured locally via console and remotely via telnet
- TFTP (Trivial File Transfer Protocol) and FTP for Transferring firmware and configuration files
- SNMP MIB Supported

Security

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

Physical Requirement

- Dimensions: 181(W)x128(D)x37(H) mm
- Weight: 305g

Physical Interface

- One RJ-11 port for ADSL connection
- One RJ-45 port for 10M/100M auto-sensing
- Ethernet LAN connection
- Power switch

Power Requirement

- AC input voltage: 100 to 120 VAC, 200 to 240 VAC
- Frequency ± 3 Hz
- Power consumption ≤ 10 w

Operating Environment

- Temperature: 5-50°C
- Humidity: 20-95% (non-condensing)

Optional Parts

- Microfilter
- POTS Splitter

2-Year Warranty

Prestige 645 Rear Panel



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