

# Prestige 642 Series

## Multi-Mode ADSL Bridge/Router

### Models

Prestige 642R	Multi-Mode Router
Prestige 642M	Multi-Mode Bridge
Prestige 642R-I	ADSL over ISDN Router



**A**DSL (Asymmetric Digital Subscriber Line) is the hottest technology for Broadband Internet Access as well as 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 modem and 800k/ 512k bps upstream for Full-Rate (T1.413 Issue2 and G.dmt) / G.Lite standard. Such asymmetrical nature makes it ideal for the SOHO environment, where the downstream traffic is typically much higher than the upstream traffic. Users can now enjoy the multi-media and real time applications such as online gambling, video conferencing and other bandwidth-consuming services by subscribing to ADSL.

### Prestige 642 Series Overview

#### Multiple-flavor ADSL Standard

The Prestige 642 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 new ADSL modem or router. The Prestige 642 series also has ADSL over ISDN solution<sup>1</sup>.

<sup>1</sup> The Prestige 642R-I will be available by Q4, 2000.

#### Plug and Play Connectivity

Pre-configured with service provider's settings, the Prestige 642 series can be automatically installed and to work with your ADSL connection without any manual configuration.

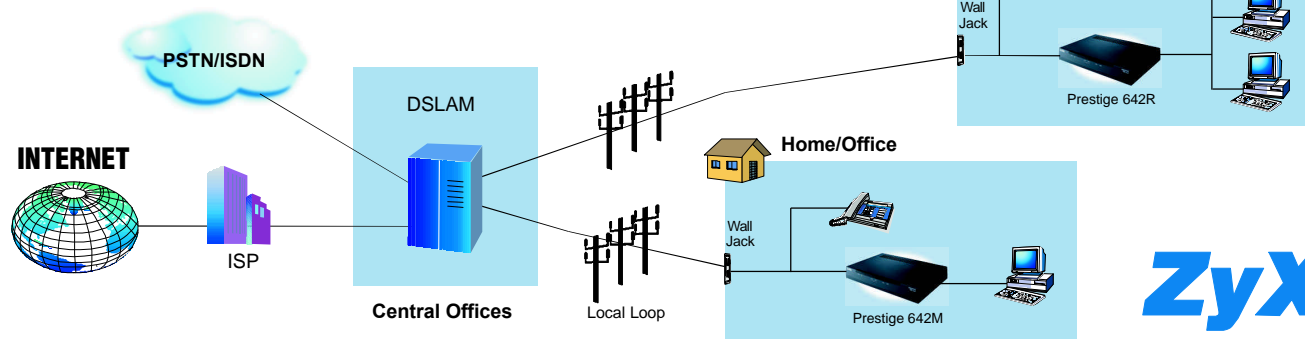
#### First PPPoE Implementation in the World for Virtual Dial Up

Incorporating ZyXEL's first-in-the-world PPPoE implementation, Prestige 642 series enables the users as well as the service providers to make use of the existing dial-up Internet infrastructure. It makes the Internet services charged by usage time that is similar to the dialup scenario. Users don't need to pay extra for PPPoE software while still enjoying the benefit of PPPoE.

#### Ease of Use and Management

Prestige 642R's windows-based GUI (Prestige Network Commander, PNC) program makes the configuration easy for the users while saving time and support effort for service providers.

### Internet Access Application



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# Prestige 642 Series

## 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 (for Prestige 642R-I)
  - 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 PVC
- Up to 8 PVCs-UBR
- 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)/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
- MultiNAT\* supporting 1:1, M:1, M:M overload and M:M no overload port mapping

### 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

\* Future Feature

### Management

- Windows-based configuration software (PNC) for installation and configuration
- Menu-driven user's interface for text-based management
- 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

- Dimension: 230(W)\*161(D)\*35(H) mm
- Weight: 514g

### Physical Interface

- One RJ-11 port for ADSL connection
- One RJ-45 port for 10M/100M auto-sensing Ethernet LAN connection
- One Console port for local configuration and management
- Optional power switch

### Power Requirement

- AC input voltage: 100 to 120 VAC, 200 to 240 VAC
- Frequency  $\pm$  3 Hz
- Power consumption  $\leq$  10w

### Operating Environment

- Temperature: 5-50 $^{\circ}$  C
- Humidity: 20-95% (non-condensing)

### Optional Parts

- Microfilter
- POTS Splitter

### 2 Years Warranty



ISO 9001 Certified.



*This product is based on the ZyNOS Networking Operating System with free firmware upgrades that can be downloaded as they become available.*

*Specifications are subject to change without notice.*

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## Prestige 642 Rear Panel

