

# Prestige 642ME

## ADSL PPP over Ethernet (PPPoE) Modem

PPPoE Inside  
Web Configurator



**A**DSL (Asymmetric Digital Subscriber Line) is the hottest technology for Broadband Internet Access as well as for providing voice services simultaneously over the same copper line. To make the implementation easier, ZyXEL's new 642ME ADSL PPPoE Modem incorporates enhanced PPPoE and Web Configurator features, which can save on the technical support costs incurred by telcos or service providers. With the Prestige 642ME, no additional PPPoE software is needed before installation, regardless of operating system. With the user-friendly Prestige Web Configurator, the Prestige 642ME can be configured and operated easily by residential users. So easy and so powerful, the Prestige 642ME makes surfing the Internet in today's broadband world easier than ever!

### Enhanced PPPoE Feature for Plug-and-Play Virtual Dial Up

With ZyXEL's new built-in PPPoE feature, the Prestige 642ME is designed for quick, intuitive and easy installation. ZyXEL's new PPPoE innovation eliminates the pre-installation requirement of PPPoE software or Microsoft Virtual Network Software, which used to be necessary when making a new PPPoE connection. This breakthrough greatly reduces the support cost of installing PPPoE software in different platform computers, and enables the product to truly be plug-and-play.

### Ease of Installation and Configuration

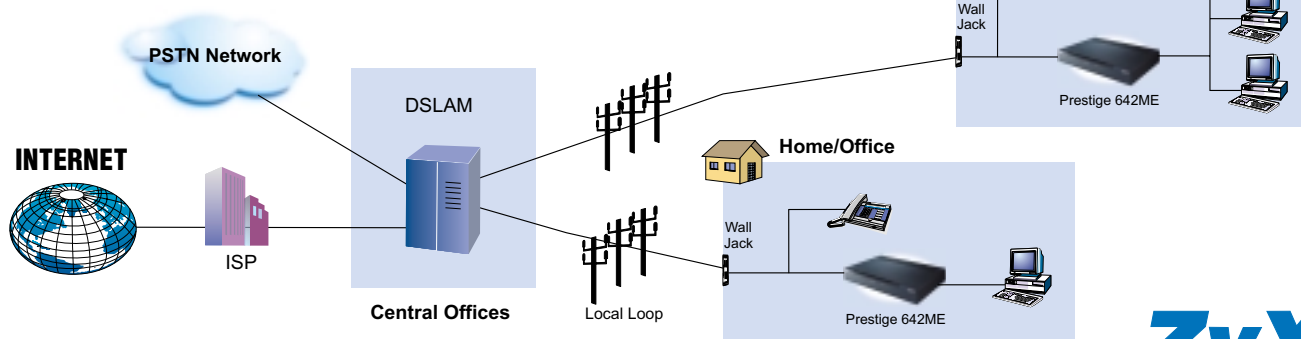
The Prestige 642's pre-configured factory settings benefit both the service provider and their customers, by eliminating the time and technical expertise required. With ZyXEL's new Web-based graphical interface, the Prestige Network Configurator, all functions of the Prestige are software configurable via a user-friendly Web browser.

### Multiple-flavor ADSL Standard

Utilizing industry-standard Discrete Multi-Tone (DMT) ADSL technology, ZyXEL's Prestige 642ME supports both Full-Rate and G.Lite standards, which allows downstream transmission rates of up to 8Mbps and upstream transmission rates of 832 Kbps.

Featuring Auto-negotiating rate adaptation between the two standards, ZyXEL's Prestige 642ME allows subscribers to easily upgrade from a G.Lite to a Full-Rate service or vice versa.

### Internet Access Application



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## Features

### 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

- Multiple Protocol over AAL5 (RFC 1483)
- VC and LLC Based Multiplexing
- ATM Forum UNI3.1/4.0 PVC
- 1 PVC-UBR
- OAM F4/F5

### PPP Support

- PPP over Ethernet(PPPoE, RFC 2516)

### Bridging

- IEEE 802.1d Transparent Bridging
- Up to 128 MAC Learning Addresses

### Internet Access Sharing

- 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, i.e. NetMeeting, ICQ, CuSeeMe, etc.

### Routing Protocols

- DHCP server, DHCP client and DHCP relay
- DNS relay

## Management

- Prestige Web configurator for installation and configuration

## Security

- Packet Filtering
- Password-protected System Management Terminal
- PAP (Password Authentication Protocol), CHAP (Challenge Handshake Authentication Protocol) and Microsoft CHAP

## Physical Specifications

### 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  $\leq 10$ w

### Operating Environment

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

### Optional Parts

- Microfilter
- POTS Splitter

## 2-YEAR WARRANTY



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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# ZyXEL

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## Prestige 642ME Rear Panel



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