

Prestige 645-A1 Series

New-Generation ADSL Router/Modem



Models: Prestige 645R-A1 ADSL Router over POTS
Prestige 645M-A1 ADSL Modem over POTS
Prestige 6245ME-A1 ADSL PPPoE Modem over POTS

The Prestige 645-A1 series is ZyXEL's latest edition of integrated CPE devices, offering superior performance and access. The Prestige 645-A1 series ADSL router provides an affordable, easy-to-use DSL access solution for small office and home office (SOHO) users and also reduces deployment and operational costs for Internet service providers. The web-based configuration is user-friendly and simple, and the asymmetrical nature of the product is suitable for the SOHO environment, where downstream traffic is typically much greater than upstream traffic. By employing the Prestige 645-A1 series, users now have the capability to enjoy multi-media and real time applications such as online gaming, video conferencing and other bandwidth-consuming services accessible by ADSL connections.

Benefits

Multiple-mode ADSL Standard

The Prestige 645-A1 series offers auto-sensing between Full-rate and G.Lite standards in accordance with a Central Office Switch or DSLAM (Digital Subscriber Line Access Multiplier). 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 a service provider's settings, the Prestige 645-A1 series can be automatically installed and will work with an ADSL connection without manual configuration.

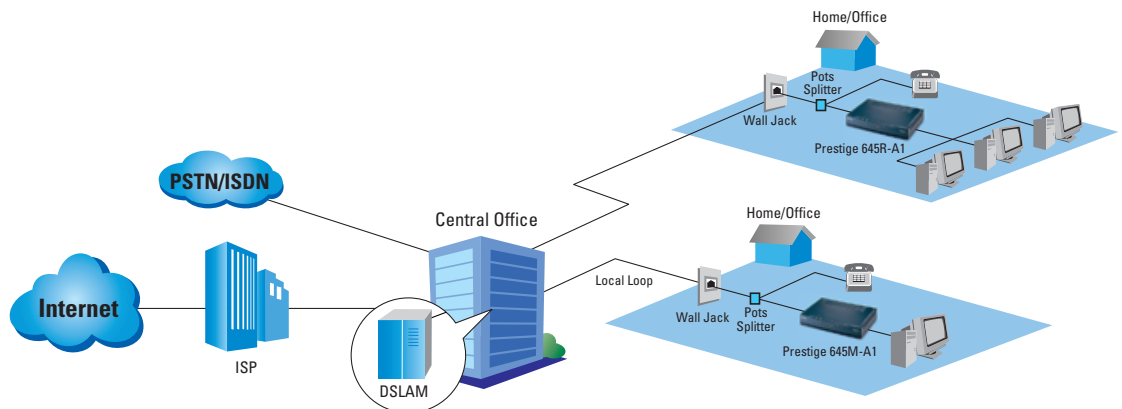
Built-in PPPoE Feature (Prestige 645R-A1/Prestige 645ME-A1 Only)

Incorporating ZyXEL's first-in-the-world PPPoE implementation, the Prestige 645-A1 series enables both users and service providers to make use of the existing PPP/PAP/CHAP based authentication and accounting infrastructure. Built-in PPPoE features save time by eliminating the need to install software.

Ease of Use and Management

The Prestige 645-A1's SMT (System Management Terminal,) and the web-based configurator make configuration easy for users while saving time and technical support for service providers.

Application Diagram



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
- Supports Dying Gasp

ATM Protocols

- ADSL physical layer support ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684)
- VC and LLC based multiplexing
- ATM Forum UNI3.1/4.0 PVC
- Support up to 8 VCs (Virtual Circuit) AAL5 PVC-UBR/CBR
- OAM F4/F5

PPP Support

- PPP (RFC 1661)
- PPP over AAL5 (RFC 2364)
- PPP over Ethernet (PPPoE, RFC 2516) (For Prestige 645R-A1 and Prestige 645ME-A1)
- PPP PAP (RFC 1334)
- PPP CHAP (RFC 1994)

Bridging

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

Internet Access Sharing (For Prestige 645R-A1 and Prestige 645ME-A1)

- SUA (Single User Account)
- NAT (Network Address Translation)
- NAT supports PAT (Port Address Translation) and Multimedia Application, ie NetMeeting, ICQ, CuSeeMe, etc

Routing Protocols

- IP Routing -RIP1, RIP2 and static route
- IP Alias
- DHCP server, DHCP client and DHCP relay
- Dynamic DNS
- IP Policy Routing (Prestige 645R-A1/Prestige 645ME-A1 Only)
- IGMP for IP multicast (Prestige 645R-A1/PrestigeME-A1 Only)
- Multi-to-Multi NAT

Management

- Menu-driven user interface for text-based management
- Web-based configuration
- Text-based management that can be configured locally and remotely via telnet
- TFTP (Trivial File Transfer Protocol), FTP and Telnet 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

Specifications

Physical Requirement

- Dimension: 181(L) x 128(D) x 52(H) mm
- Weight: 373g

Physical Interface

- One RJ-11 port for ADSL connection
- One RJ-45 port for 10/100Mbps auto-sensing, MDI/MDIX auto-sensing
- Ethernet LAN connection
- Power Switch
- Reset Button

Power Requirement

- AC input voltage: 100 to 120 VAC, 200 to 240 VAC
- Power consumption: 12W max

Operating Environment

- Temperature: 5 ~ 40°C
- Humidity: 20 ~ 95% (non-condensing)

Optional Parts

- Microfilter
- POTS Splitter

2-Year Warranty

Approval

- UL 1950 3rd Ed., FCC Part 15 class B, FCC part 68, CE Mark, EN 60950, IEC 60950, CSA 950.

Rear Panel



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