Prestige 643

ADSL Router with 4-port Ethernet Switch

The new ZyXEL Prestige 643 is an ideal solution for SOHO users who value super fast Internet access or LAN to LAN connections over existing copper wires. An ADSL-based router with an integrated 4-port 10/100 Mbps switch, the Prestige 643 provides maximum speeds of 8Mbps for up to 4 computers without the extra cost of hubs or switches.

Benefits

Standard-based, Auto-Sensing ADSL Solution

With Multi-Mode standards support, the Prestige 643 automatically senses and switches between full-rate and G.lite standards offered by the service provider. This means that you can easily upgrade from G.lite service to a full-rate service without purchasing a new ADSL Modem. Incorporating ZyXEL' s first-in-the-world PPPoE implementation, the Prestige 643 not only saves the cost of PPPoE installation in individual computers, but also makes Internet access as easy as dial-up network scenarios without new knowledge from users.

An Instant LAN with an Integrated 10/100Mbps Switch

The combination of a switch and router makes the Prestige 643 more space efficient and less expensive than 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 a hub where the bandwidth is inefficiently shared by all the stations.

Powerful 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 also supports multimedia applications such as NetMeeting, CUSeeMe, IRC, RealPlayer and ICQ. With PPP, routing and robust security features, the Prestige 643 connects your computers to the Internet while protecting your local network.

Easy of Use and Management

The web browser-based GUI (Graphical User Interface) allows easy installation of the Prestige 643 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 plug-and-play.

ADSL Internet Access
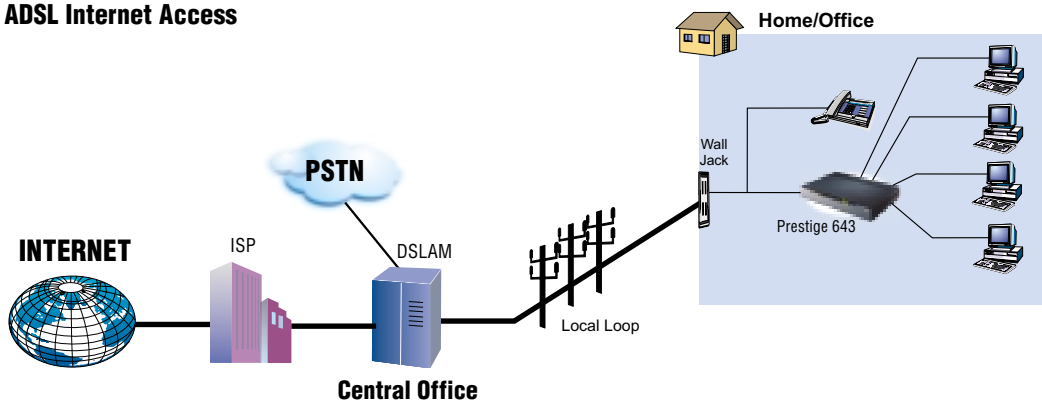
ZyXEL

TOTAL INTERNET ACCESS SOLUTION

Prestige 643

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 supports 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
- Virtual Circuit Traffic Shaping-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
- SUA (Single User Account)/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/IPX Routing
- RIP1, RIP2 and Static Route
- IP Alias
- DHCP server and DHCP client
- DNS Relay
- IP Policy Routing
- IGMP for IP Multicast

Management
- HTML browser interface for easy installation and management
- Menu-driven user's interface for text-based management
- Text-based management that is accessible locally via console port and remotely via telnet
- TFTP (Trivial File Transfer Protocol) and FTP for firmware upgrade, configuration backup and restore
- 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 Specifications
- Dimensions: 230(W)mm x 161(D)mm x 35(H)mm
- Power Requirement: 16VAC
- Weight: 514g

Physical Interfaces
- One RJ-11 connector for ADSL connection
- Four RJ-45 connectors for an IEEE 802.3u 10/100M LAN connection
- One console port for local configuration and management

Power Requirement
- AC input voltage: 100 to 120 VAC, 200 to 240 VAC
- Frequency ± 3 Hz
- Power consumption ≤ 12W

Operating Environment
- Temperature: 0-50 ^{o}C
- Humidity: 20-95% (non-condensing)

Optional Parts
Microfilter
POTS splitter

Two-Year Warranty

Specifications are subject to change without notice

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

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Prestige 643 Rear Panel