Prestige 128L

IDSL Bridge/Router

Bringing the power of IDSL to your LAN has never been simpler, more convenient or more cost-effective. The ZyXEL Prestige 128L is your ideal solution for Internet Access and LAN-to-LAN applications.

Network Interface Compatibility
- Capable of transmitting data at 128Kbps over 18,000 feet of twisted copper pair wire
- Data can be 128K/64Kbps compatible with most of the commercially available 2B1Q band ISDN BRI Terminal adapters, bridges and routers
- Adaptive echo cancellation and equalization
- Automatic polarity adaption and gain control
- Conforms to ANSI T1.601 standard and ETSI DTR/TM 3002
- 2B1Q (2 binary, 1 quaternary) four level line code
- 80KHz symbol rate
- Meet transmission requirements through ANSI loop#1 to ANSI loop#15
- Server or client mode by configuration

Protocols and Compression
- PPP
- Supports Stac® Data Compression
- Supports ZyXEL Network operating System (ZyNOS™) which provides high level flexibility for configuration operations

Internet Access
- The ideal high-speed IDSL Internet access solution for branch offices
- Prestige's Single User Account (SUA) / Network Address Translation (NAT) enables multiple users to access the Internet simultaneously while paying for one single IP address

LAN-to-LAN Connectivity with Multi-Protocol Support
- Multi-Protocol Routing: IP and IPX®
- Transparent Bridging
- RIP-2: routing domains, external route tags, next hop addresses, and multicasting
- Compatible with Ascend IDSL solution

Network Management and Control
- Menu driven user interface for easy network management
- Local and remote console via Telnet
- Integrated SNMP (Simple Network Management Protocol) provides the ability to monitor usage and troubleshooting from corporate site
- DHCP (Dynamic Host Configuration Protocol) server is easy to configure and manage to IP address for DHCP client, Windows 95/NT on the LAN
- Flash EPROM for easy firmware upgrades
- Prestige Web Configurator (PWC) for easy setup and management

Security Features
- Password Protected System Management Terminal
- PAP (Password Authentication Protocol)
- CHAP (Challenge Handshake Authentication Protocol)
- Firewall Filtering for controlled access to and from your network

Physical Interfaces
- Ethernet LAN connection: 10 Base-T and AUI
- Standard BRI U interface: RJ-45

US FCC, Canadian IC, and European CE approved. Specifications are subject to change without notice. All trademarks are the property of their respective owners.
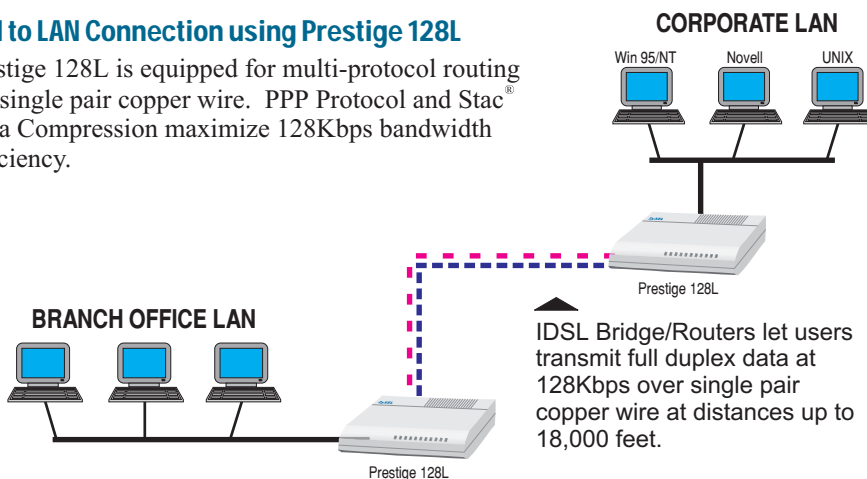
Prestige 128L

IDSL Bridge/Router Applications

Prestige 128L IDSL Bridge/Routers allow users to easily extend their LAN-to-LAN connection over a 2-wire leased line and transmit full 128Kbps BRI data rate at a distance of up to 18,000 feet. Users can configure the P128L as an IDSL server which will provide 2B1Q line coding through a U-interface loop on the side of the host LAN. The remote LAN side for IDSL service can consist of a P128L, which will be configured as a client, or any other IDSL client type bridge/routers.
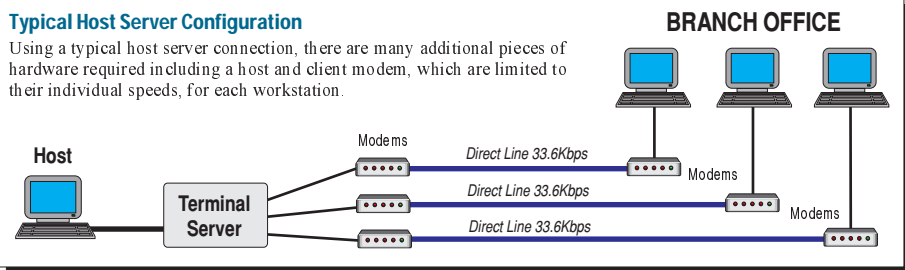
LAN to LAN Connection using Prestige 128L

Prestige 128L is equipped for multi-protocol routing via single pair copper wire. PPP Protocol and Stac® Data Compression maximize 128Kbps bandwidth efficiency.
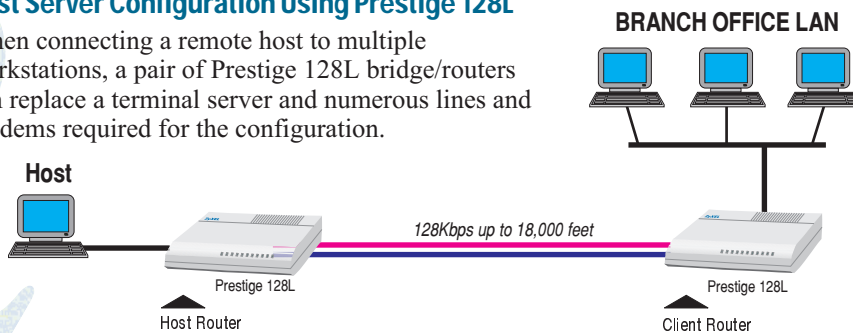
CORPORATE LAN

Win 95/NT   Novell   UNIX

Prestige 128L

BRANCH OFFICE LAN

Prestige 128L

IDSL Bridge/Routers let users transmit full duplex data at 128Kbps over single pair copper wire at distances up to 18,000 feet.

Typical Host Server Configuration

BRANCH OFFICE

Using a typical host server connection, there are many additional pieces of hardware required including a host and client modem, which are limited to their individual speeds, for each workstation.

Host

Terminal Server

Modems

Direct Line 33.6Kbps
Direct Line 33.6Kbps
Direct Line 33.6Kbps

Modems
Modems

Host Server Configuration Using Prestige 128L

When connecting a remote host to multiple workstations, a pair of Prestige 128L bridge/routers can replace a terminal server and numerous lines and modems required for the configuration.

BRANCH OFFICE LAN

Host

128Kbps up to 18,000 feet

Prestige 128L   Prestige 128L
Host Router   Client Router

IOC "S" and EZ-ISDN 1 Capability

ZyXEL

ISO 9002
DNV

ACCESSING INTERNET & INTRANET

http://www.zyxel.com