

omni.net

The ZyXEL omni.net is a high-performance, low-cost ISDN computer terminal adapter for home computer users, small office/home office users and corporate telecommuters

A Computer Terminal Adapter Like No Other

With a feature set unlike other terminal adapters and modems currently on the market, omni.net provides unprecedented speed in accessing the Internet. Unique features include a speedy **460.8Kbps** serial DTE port, **Hi/fn LZS (Stac®) data compression** and **V.42bis** over ISDN. Together they provide high-speed web browsing and fast and easy downloading of multimedia files, such as high-quality audio, video and graphics.

The omni.net supports **PPP Multilink Protocol**, allowing for communication with ISDN devices from other manufacturers at full bandwidth of up to 128Kbps. Bandwidth Allocation Control Protocol (BACP) provides added flexibility through the PPP Multilink Protocol. **Bandwidth On Demand** automatically bundles the two B channels with the help of BACP, which evaluates data traffic and automatically adds and drops the second B channel as needed.

Also featured in omni.net are two analog interface ports which allow simultaneous use of two analog devices such as modems and fax machines. **Channel Bumping** enables you to use an analog port when the two ISDN B channels are in use by re-allocating the second B channel to that analog port.

A Worldwide Networking Solution

No matter where you are in the world, there is an omni.net model to suit your needs. Their extensive ISDN network protocol support spans the globe. The omni.net is also available with either an S/T or U interface. The S/T interface model works with an external NT-1 device, ideal for those utilizing other ISDN equipment. The U-interface model provides easy installation and desktop space savings.



Adaptability and Ease of Use

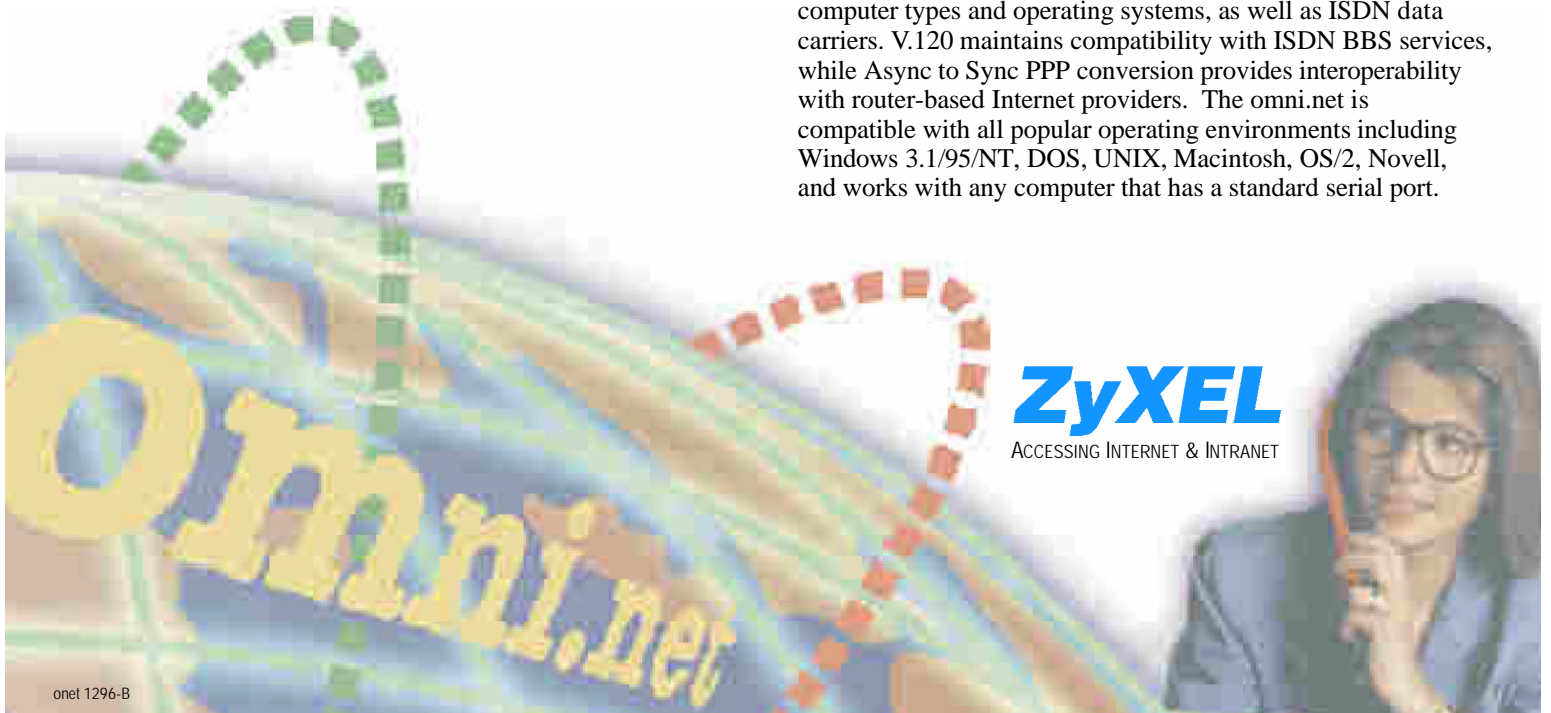
ZyXEL's **Multi-Auto** feature automatically detects and accepts incoming data for PPP, V.120 and V.110, freeing users from manual protocol configuration.

ISDN Ordering Codes (IOC) and EZ-ISDN-1 compliance make ordering your ISDN network connection a snap. Just give ZyXEL's IOC code to your Regional Bell Operating Company representative, and they will know exactly how to configure your account with the correct set of capabilities.

Flash EPROM allows for easy firmware upgrades. New features and updates may be downloaded free of charge from ZyXEL's BBS, FTP and World Wide Web sites.

Maximum Compatibility

The omni.net is designed to be compatible with a variety of computer types and operating systems, as well as ISDN data carriers. V.120 maintains compatibility with ISDN BBS services, while Async to Sync PPP conversion provides interoperability with router-based Internet providers. The omni.net is compatible with all popular operating environments including Windows 3.1/95/NT, DOS, UNIX, Macintosh, OS/2, Novell, and works with any computer that has a standard serial port.



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OMNI.NET KEY FEATURES

- 128Kbps ISDN BRI
- PPP Multilink Protocol
- Bandwidth-on-Demand with BACP
- Standard ISDN S/T or U Interface
- Two Analog Device Ports
- Multi-Auto Protocol Selection
- Hi/fn™ LZS® (Stac®) Compression
- 460.8Kbps Maximum Throughput
- ISDN Ordering Codes
- Plug and Play Compatible

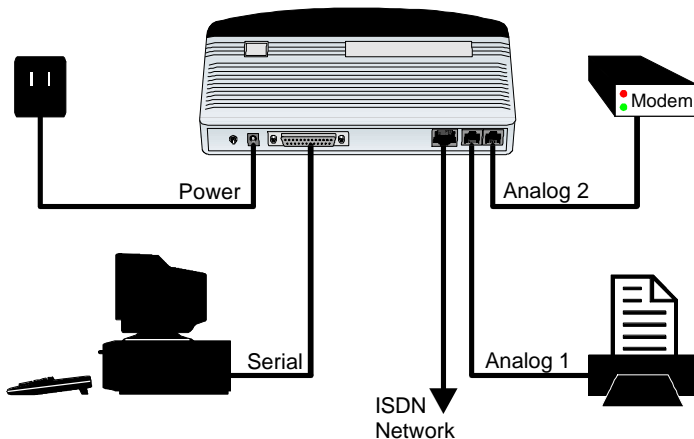


Protocol Support and Compression

- PPP Multilink Protocol supported in both client and server modes for compatibility with other ISDN access devices at speeds of up to 128Kbps
- Bandwidth-on-Demand optimizes bandwidth usage
- RateSaver™ lowers charges for ISDN data connections
- Multi-Auto™ feature automatically selects the data type and protocol of incoming ISDN data
- Rate Adaption: V.120, V.110, X.75**
- Async to Sync PPP conversion
- Channel Bundling: PPP MP, V.120 MLP, and X.75 CCB**
- Supports V.42bis Data Compression with V.120 and X.75**
- Incorporates Hi/fn™ LZS® (Stac®) Compression with PPP

ISDN Network Compatibility

- Standard BRI S/T or U Interface
- Europe and Asia*: DSS1, ITR6, INS-NET64, Taiwan DGT (In corresponding S/T interface models only)
- North America*: AT&T 5ESS, Northern Telecom DMS-100, Siemens EWSD
- Supports ISDN Ordering Codes IOC "S" and EZ-ISDN 1



Analog Operability

- Two Analog Ports for connecting two external analog devices such as modems and fax machines
- Channel Bumping re-allocates the second B channel to an analog port when both B channels are in use
- Automatic digital/analog data detection

Application and Configuration Control

- Flash EPROM for easy firmware upgrades
- Diagnostic: self-test and loopback
- ZyXEL ISDN AT Commands
- ZyXEL Multiple Stream Protocol and CAPI 1.1a **
- Front panel switch for quick connect and tear down
- 10 LED Indicators for detailed status monitoring

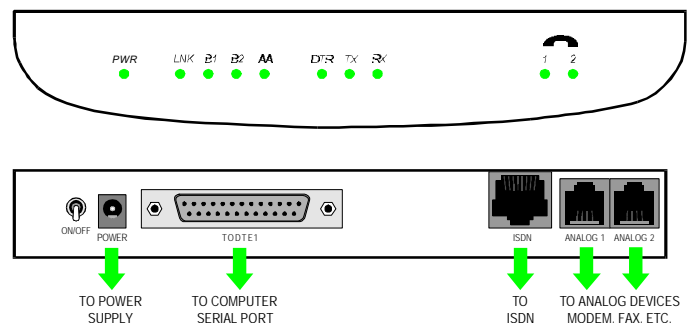
Physical Characteristics

- RJ-45 ISDN Basic Rate Interface
- Two RJ-11 Analog Device Ports
- DB-25 High speed 460.8Kbps Computer Serial DTE Port
- Dimensions (inches): L - 5 1/4; W - 7 1/16; H - 1 1/2
- Weight: 13 ounces

Backed by ZyXEL - The Communications Experts

- Two Year Parts and Labor Warranty
- Knowledgeable Technical Support Team
- Worldwide Reputation for Quality and Durability
- On-Line Documentation and Support Notes

OMNI.NET Front and Rear Panels



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