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SyncLink WAN Adapter for Windows NT/2000



The SyncLink WAN Adapter provides a high-speed, synchronous PPP port for computers running Windows NT/2000. This port connects to remote routers or computers using a variety of wide area networking services including DDS, ISDN and T1/E1.

SyncLink emulates an Ethernet LAN adapter, enabling Windows NT/2000 LAN applications to communicate over a wide area network as though locally connected. SyncLink is available in ISA and PCI versions for X86 computers. The ISA version supports data rates up to 2.048 Mbps. The PCI version supports data rates up to 10 Mbps.

For flexibility in interfacing with different types of data communications equipment, SyncLink features three built-in serial interfaces: V.35, RS-232, and RS-422 (RS-530, RS-449, X.21) SyncLink cables directly to data communications equipment such as high-speed synchronous modems and digital service CSU/DSUs. Available conversion cables are required for V.35, RS-449, RS-530, and X.21 applications.

The ISA version can be configured for seven (7) different I/O base addresses, eight (8) different interrupt request levels, and five (5) different DMA channels, allowing up to five adapters to be installed in a single ISA computer.

With a 32-bit PCI 2.1 compliant bus interface, the PCI version features Plug and Play configuration of adapter resources, such as I/O base address and interrupt request level. This eliminates the need to manually configure hardware and software settings for these resources. The number of adapters that can be installed is limited only by the number of available PCI slots and interrupts.

To verify installation or test SyncLink at any time after installation, comprehensive board-level diagnostics can be activated by clicking on a test button in the Control Panel.

FEATURES

LAN Emulation
SyncLink appears to Windows NT/2000 as a LAN adapter supported by a standard NDIS network driver. LAN packets sent by Windows NT/2000 to the adapter are encapsulated into frames and transmitted over the PPP data link. Received frames are converted to LAN packets and passed up to Windows NT/2000 for processing. These conversions are transparent to LAN applications.

Persistent Connections
SyncLink provides automatic connection reestablishment after loss of a PPP data link.

Authentication
SyncLink supports one and two-way authentication using PAP and CHAP protocols.

Routing
SyncLink supports IP and IPX routing through the Routing and Remote Access Service (RRAS).

Protocols
SyncLink supports IP and IPX network protocols in addition to the following IETF protocols for PPP connections:

- RFC1661 Point to Point Protocol (PPP)
- RFC1662 HDLC Framing for PPP
- RFC1334 Password Authentication Protocol (PAP)
- RFC1994 Challenge Handshake Authentication Protocol (CHAP)
- RFC1332 Internet Protocol Control Protocol (IPCP)
- RFC1552 Internetwork Packet Exchange Control Protocol (IPXCP)

Control and Monitoring Utility
A utility program is provided that controls the PPP connection, monitors the status of a PPP connection, and performs data and event tracing for diagnostic purposes.

APPLICATIONS

Networking applications for the SyncLink WAN adapter include internet gateways for LANs, high-speed Internet and Intranet servers (WWW, FTP, etc.), LAN to remote LAN connections, high-speed WAN connections with remote devices over PPP links, and IP & IPX routing with Routing and Remote Access Service.

Application Notes are available which describe in detail several different networking applications and environments for the SyncLink WAN adapter.

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SPECIFICATIONS

Serial Controller: Z16C32 IUSC
Driver: NDIS Network Driver
Serial Interfaces: Jumper-selectable as V.35, RS-232, RS-422 (RS-530, RS-449, X.21)
Serial Data Format: Bit-synchronous (HDLC)
Serial encoding: NRZ or NRZI
Data Rates:
ISA: Up to 2.048 Mbps
PCI: Up to 10 Mbps
Clocking: Internal or external
I/O Base Address:
ISA: Switch-selectable as 100h, 110h, 120h, 200h, 210h, 300h, 310h
PCI: Plug and Play configurable
Interrupt Request Level:
ISA: Jumper-selectable as IRQ3-5, IRQ9, IRQ10-12, IRQ15
PCI: Plug and Play configurable
DMA Level: ISA: Jumper-selectable as level 0, 1, 3, 5, 7
Environmental: Temperature 0-50C; humidity 0 to 95% non-condensing; alt. - 200 to +10,000 ft.
Mechanical:

ISA: Length 7.9", Width 5.0", Thickness 0.9", Weight 6.0 Oz
PCI: Length 7.2", Width 5.0", Thickness 0.9", Weight 5.0 Oz
Power requirements:
ISA: 0.5A +5V, 25 mA +12V, 25mA -12V
PCI: 0.8A +5V, 23 mA +12V, 23mA -12V
Certification: Complies with FCC limits for a Class A digital device; conforms with CE requirements
Connector: DB-25 (male)
Cable Options: DB-25 (female) to DB-25 (male); DB-25 (female) to 34-pin V.35 (male); DB-25 (female) to 37-pin RS-449 (male); DB-25 (female) to 15-pin X.21 (male)

PRODUCT CONFIGURATIONS

Description	Product Code
SyncLink WAN Adapter/ISA/V.35	161183
SyncLink WAN Adapter/PCI/V.35	171183
SyncLink WAN Adapter/ISA/RS-232	162183
SyncLink WAN Adapter/PCI/RS-232	172183
SyncLink WAN Adapter/ISA/RS-422/X.21	163183
SyncLink WAN Adapter/PCI/RS-422/X.21	173183
V.35 cable	2534FM
RS-232 cable	CMF000
RS-449 cable	2537FM
RS-530 cable	CMF000
X.21 cable	2515FM

If you have any questions or would like pricing on this product, please contact us via email, or call toll free at (800)444-1982 between 8:30am-5pm Central time, M-F. All inquiries are responded to promptly.

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