



EtherLink III PC Cards (PCMCIA)

The industry's fastest PC Cards, featuring Parallel Tasking LAN performance and the fastest PC Card fax modem

EtherLink III PC Cards give you a choice of high-performance Ethernet LAN or LAN+33.6 Modem connections. These cards provide notebook computer users with the fastest direct and dial-up network access available, plus easy installation and guaranteed compatibility.



EtherLink® III PC Cards (PCMCIA) with 3Com's patented Parallel Tasking® technology deliver unmatched Ethernet performance for notebook computer users.

For the mobile user requiring a high-performance PC Card fax modem, the EtherLink III LAN+33.6 Modem PC Card combines the functions of the high-speed 33.6 Kbps modem and the fastest

Ethernet PC Card. LAN and modem functions can operate simultaneously or separately.

EtherLink III PC Cards support both PCMCIA Release 2.0/2.1 and The PC Card Standard specifications. They are guaranteed compatible with leading notebook computers, and are backed by 3Com's lifetime warranty.

Key Benefits:

■ **Highest Ethernet performance.** 3Com's patented Parallel Tasking technology speeds network response and files transfers up to 46% faster than other PC Cards.

■ **Industry's fastest modem.** 3Com's 33.6 Kbps (V.34) modem is up to 82% faster than the competition with the fastest data throughput of any PC Card LAN+Modem.

■ **Easy installation.** EtherLink III PC Cards are Plug and Play under Windows 95. They include 3Com's unique AutoIQ™ intelligent diagnostics software, which automatically detects and resolves installation problems.

■ **Extend your notebook battery life.** Industry's lowest LAN power consumption—35 mA for TP and 198 mA for coax. The LAN+Modem automatically powers down when idle.



EtherLink III PC Cards



LAN+33.6 Modem PC Card

To ensure the fastest network access for mobile users, 3Com's EtherLink III LAN+33.6 Modem PC Card offers a powerful combination of high-speed 33.6 Kbps modem and the fastest Ethernet LAN connectivity. Whether users are on the road or in the office, they get industry-leading performance unequaled by any other PC Card.



EtherLink III LAN+33.6 Modem PC Card

3C562D-TP (U.S./Canada)

3C562D-COMBO (U.S./Canada)

- One RJ-45 10BASE-T cable
- One LED, showing linkbeat
- One modem interface cable with Data Access Arrangement (DAA) and two RJ-11 female connectors
- One RJ-11 phone cable (double male)

EtherLink III LAN+33.6 Modem Global PC Card

3C563D-TP (International)

3C563D-COMBO (International)

- LAN interface cable with BNC and RJ-45 connections for line and telephone
- One LED, showing linkbeat
- One international modem interface cable with Data Access Arrangement (DAA) and two RJ-11 female connectors
- One RJ-45 10BASE-T cable
- One RJ-11 phone cable (double male)
- International telephone line adapter
- Modem Country Selector software utility

Fastest Modem Available

3Com's EtherLink III LAN+33.6 Modem PC Card offers the industry's highest data throughput with its optimized 16-bit modem architecture.

Up to 82% faster than the competition, as measured by Henderson Communications (see chart below), the LAN+33.6 Modem is designed for high-performance network access, connecting consistently at high speeds, even over the noisiest of lines.

Automatic Power Saving Features

Lowest LAN power consumption in a multifunction PC Card—50 milliamps for 10BASE-T.

Only 3Com has automatic power-down, for both LAN and modem functions, conserving notebook battery life.

Unmatched Ethernet Performance

On the LAN side, users get the full benefit of 3Com's patented Parallel Tasking performance. This means LAN transmission speeds are up to 46% faster than competing cards in NetWare and LAN Manager environments, according to benchmarks by XXCAL Labs. Parallel Tasking makes such increases possible by overlapping processing tasks, which accelerates network response and file transfers.

Installs in Minutes

The EtherLink III LAN+33.6 Modem PC Card is Plug and Play under Windows 95. For notebooks running Windows 3.x, 3Com's unique AutoIQ intelligent diagnostics software eliminates installation problems such as memory resource conflicts. And in NetWare environments, AutoLink™ installation software automatically installs network drivers in less than three minutes.

Cellular Ready

With an additional interface, the EtherLink III LAN+33.6 Modem PC Card provides dial-up network access through your cellular phone.

Money-Back Compatibility Guarantee

The EtherLink III LAN+33.6 Modem PC Card is guaranteed compatible with all the leading notebook computers or your money back within one year of purchase.

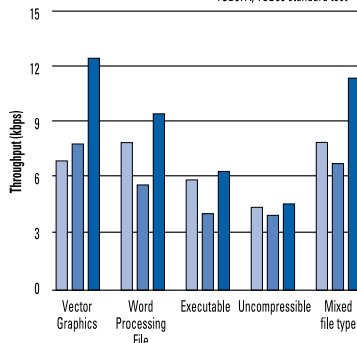
Lifetime Warranty

3Com guarantees the EtherLink III LAN+33.6 Modem PC Card's reliability with a lifetime warranty.

Modem Performance

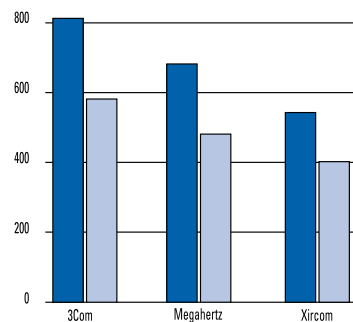
Two-Way Throughput by File Type

TSB37A, TSB38 standard test



Source: Henderson Communications, 1997

Ethernet Performance



Source: Network Computing, 1996

LAN PC Card

With 3Com's EtherLink III LAN PC Card, notebook users have the fastest direct access to the network. At the same time, users get the unequalled performance and functionality that has made 3Com's EtherLink III the world's best selling LAN PC Card.



EtherLink III LAN PC Card 3C589D-TP

- One RJ-45 10BASE-T cable
- One LED, showing linkbeat

EtherLink III LAN PC Card 3C589D-COMBO

- LAN interface cable with BNC and RJ-45 connections for line and telephone
- One LED, showing linkbeat

Unmatched Performance

3Com's EtherLink III LAN PC Card gives users full Parallel Tasking performance in a credit card size package. The PC Card is up to 46% faster than competing cards in NetWare and LAN Manager environments, according to independent benchmarks by XXCAL.

The foundation of the EtherLink III LAN PC Card is Parallel Tasking, a patented technology that overlaps processing tasks to increase performance. For example, the card begins writing the first portion of a packet onto the wire while it's still reading the last portion of the packet into card memory. EtherLink III software also dynamically tunes the timing of Parallel Tasking transmission and reception to maintain maximum throughput.

Simple Installation and Operation

In just three minutes or less, EtherLink III LAN PC Card users can have their Ethernet connection up and running. The card offers the convenience of Plug and Play support for PCs running Windows 95. For notebooks running Windows 3.x, 3Com's unique AutoIQ intelligent diagnostics software eliminates installation problems such as IRQ and memory resource conflicts. And in NetWare environments, AutoLink installation software automatically installs network drivers in less than three minutes.

To make the network manager's job easier, the EtherLink III PC LAN Card includes SmartAgent® management agents that bring SNMP management to the desktop level. The card's software integrates with 3Com's Transcend® management applications and conforms with the Desktop Management Task Force (DMTF) DMI standard, ensuring seamless interoperability with enterprise-wide management systems.

Power Management Features

The more power required to operate a PC Card, the less time notebook users have between battery charges. To ensure that you get maximum computing time, 3Com's power management feature reduces average TP power consumption to the industry's lowest—35 mA.

Full Standards Compliance

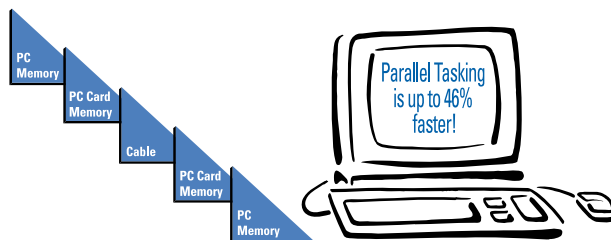
The EtherLink III LAN PC Card supports The PC Card Standard and the previous PCMCIA Release 2.0/2.1 specifications.

Compatibility Guarantee and Lifetime Warranty

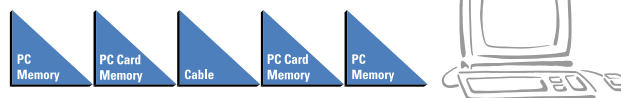
3Com guarantees that the EtherLink III LAN PC Card is compatible with your notebook computer—or your money back at any time within the first year. In addition, the EtherLink III LAN PC Card is backed by 3Com's lifetime warranty.

Parallel Tasking Means Better Performance

EtherLink III LAN PC Card with Parallel Tasking



Second-Generation LAN PC Card



3Com EtherLink III Parallel Tasking PC Cards speed data flow by overlapping tasks.



Specifications

EtherLink III PC Cards

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Compatibility

EtherDisk Software

EtherLink III PC Cards ship with a 3Com EtherDisk® that contains the drivers for leading network operating systems, such as NetWare 4.x & 3.x server*, DOS ODI, OS/2®, ODI, NDIS 2.01 DOS, OS/2, Windows for Workgroups, Windows NT 3.51 and 4.0 version, and Windows 95.

* LAN PC Card only

Other Software

Drivers for other third-party software such as SCO, UNIX, UnixWare, Solaris, and Interactive are available from the 3Com BBS or the third party. For a complete list of supported software for specific 3Com PC Cards, refer to the "Software Compatibility Guide," Document 9071 on the 3ComFacts™ system.

Connectors, Cables, and Operating Distances

The following table summarizes cable connector configurations:

BNC Connector

For use with on-board transceiver; supports network segments up to 1000 ft/305 m with thin Ethernet coaxial cable (RG58 C/U or A/U); External Combo MAU ships with the Combo version

RJ-45 Connector (Female)

For use with on-board transceiver; supports Level 3 unshielded twisted-pair network segments up to 328 ft/100 m; 6 inch cable with female RJ-45 connector plus a 6 foot RJ-45 extension cable

RJ-11 Connectors (Female)

For telephone line interface; one data and one voice; DAA including 2 RJ-11 connectors; 6 foot phone cable

LED

PC Cards have one LED that glows to indicate the integrity of the link with a 10BASE-T hub, or to indicate power for coax connections

Interrupt Levels

3, 4, 5, 7, 9, 10, 11, 12, 15

I/O Base Address

16 possible addresses, 200 to 3A0h

Physical Dimensions

Type II PC Card

Length: 3.37 in/8.56 cm

Width: 2.12 in/5.4 cm

Thickness: 0.19 in/0.5 cm

Operating Voltage (maximum)

LAN PC Card

TP: +5V ± 5% at 35 mA typ.

Coax: +5V ± 5% at 198 mA typ.

LAN+Modem (both functions):
+5V ± 5% at 290 TP mA max.
+5V ± 5% at 420 Coax mA max.

Environmental Operating Ranges

Temperature: 32° to 158° F
(0° to 70° C)

Humidity: 10% to 90%
noncondensing

Altitude: to 9800 ft/3000 m

Emission Specifications

FCC Part 15 Class B; UL1950, 1st edition; UL478 5th Edition, CSA 22.2 #220; FCC Part 68; CSA 03 CE Mark, VCCI

Standards Conformance

LAN

10BASE-T Ethernet (IEEE 802.3 Section 14)

Modem

Modem Modulation Modes:
Bell 212A, V.21, V.22, V.22 bis, V.23, V.32 bis with rate re-negotiation; V.33, V.34, V.34+

Fax Modulation Modes:
Class 1 and Class 2; V.21 (300 bps); V.27ter (4800/2400 bps); V.29 (2700/9600 bps), V.17 (12 Kbps/14.4 Kbps)

DTE speed up to 400 Kbps

V.42bis MNP5 Data Compression

Error detection/correction protocol, V42 MNP 2, 4, 10[†]

[†]MNP 10 is available with purchase of cellular interface option

Additional Standards

PCMCIA Release 2.0/2.1 and The PC Card Standard

Register and architectural compatibility with a 16550 UART that adheres to the I/O and interrupt conventions established under the AT (IBM PC) definitions for COM 1COM 4

Hayes AT command set

Novell NetWare client (ODI) certification tests

Microsoft compatibility (NDIS) certification test suite

Network Management

Transcend SmartAgent software

Lifetime Warranty

3Com warrants EtherLink III PC Cards to be in good working order for as long as you own the card.

Ordering Information

LAN PC Card

10BASE-T LAN PC Card 3C589D-TP

10BASE-T LAN PC Card 5-Pack 3C589D-TP-5PK

10BASE-T LAN PC Card 20-Pack 3C589D-TP-20PK

10BASE-T LAN PC Card 100-Pack 3C589D-TP-100PK

10BASE-T/Coax LAN PC Card (Coax and 10BASE-T) 3C589D-COMBO

10BASE-T/Coax LAN PC Card 5-Pack 3C589D-COMBO-5PK

10BASE-T/Coax LAN PC Card 20-Pack 3C589D-COMBO-20PK

10BASE-T/Coax LAN PC Card 100-Pack 3C589D-COMBO-100PK

LAN+33.6 Modem PC Card

10BASE-T LAN+33.6 Modem PC Card 3C562D-TP (U.S. and Canada)

10BASE-T LAN+33.6 Modem PC Card 5-Pack 3C562D-TP-5PK (U.S. and Canada)

10BASE-T/Coax LAN+33.6 Modem PC Card 3C562D-COMBO (U.S. and Canada)

10BASE-T/Coax LAN+33.6 Modem PC Card 5-Pack 3C562D-COMBO-5PK (U.S. and Canada)

10BASE-T LAN+33.6 Modem Global PC Card 3C563D-TP (International)^{††}

10BASE-T LAN+33.6 Modem Global PC Card 5-Pack 3C563D-TP-5PK (International)^{††}

10BASE-T/Coax LAN+33.6 Modem Global PC Card 3C563D-COMBO (International)^{††}

10BASE-T/Coax LAN+33.6 Modem Global PC Card 5-Pack 3C563D-COMBO-5PK (International)^{††}

PC Card Cables

10BASE-T LAN+33.6 Modem PC Card LAN cable 3C-PC-TP-CBL

10BASE-T/Coax LAN+33.6 Modem PC Card LAN cable 3C-PC-COMBO-CBL

LAN+33.6 Modem PC Card modem cable 3C-PC-MDM-US-CBL (U.S. and Canada)

LAN+33.6 Modem PC Card modem cable 3C-PC-MDM-INTL-CBL (International)^{††}

10BASE-T LAN PC Card adapter cable 3C-PC-TP-CBL

10BASE-T/Coax LAN PC Card adapter cable 3C-PC-COMBO-CBL

^{††}For use in approved countries only. For current certified countries, refer to 3Com Web site, <http://www.3com.com>.

For More Information

For more information about 3Com PC Cards, please call 800-NET-3Com (800-638-3266) in the U.S. or Canada, or call your local sales office.

To learn more about 3Com products and services, visit our World Wide Web site at <http://www.3com.com>.

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