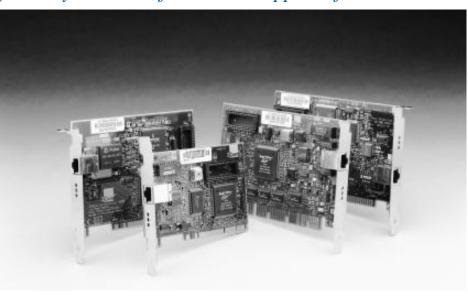


Fast EtherLink XL and Fast EtherLink 10/100BASE-T Network Interface Cards

High-performance, reliable networking at 10 or 100 Mbps for many PC buses, from the #1 supplier of Fast Ethernet



Fast EtherLink XL and Fast
EtherLink network interface cards
set the industry standard for performance. With 3Com's exclusive
Parallel Tasking technology, you
get top speeds at both 10 Mbps
and 100 Mbps. Fast EtherLink
cards support 10/100 BASE-TX for
EISA and ISA buses and
10/100BASE-T-4 (Category 3, 4
and 5 UTP) for the PCI bus. The
Fast EtherLink XL card supports
10/100BASE-TX for the PCI bus.

3Com's leadership in Ethernet and enterprise-wide Fast Ethernet solutions ensures you a smooth migration to high-speed networking and unprecedented network functionality.

Supply your high-performance PCs and servers with dual-speed Fast EtherLink® XL PCI or Fast EtherLink PCI, ISA, or EISA cards, and they will run at the fastest available data throughput rates in both 10BASE-T and 100BASE-T environments.

3Com Fast EtherLink cards enable a total workgroup solution with high-speed connection to PCI or ISA client PCs and PCI or EISA servers. The cards support 100BASE-TX and 100BASE-T4, allowing you to use existing cabling without costly upgrades.

Together with 3Com's SuperStack™ II switches and hubs, Fast EtherLink cards are the most powerful, reliable, and easy way to move to 100 Mbps networking.

Key Benefits:

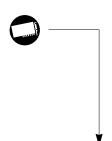




- Top performance. 3Com's patented Parallel Tasking® technology delivers unsurpassed throughput and low CPU utilization.

 Combining this technology with 3Com's PACE™ Interactive Access, the Fast EtherLink XL PCI card achieves performance/efficiency ratings in a Novell® NetWare™ environment that are up to 61% higher than competing cards.'
- Easy migration. Fully compatible with 10BASE-T and 100BASE-T equipment, Fast EtherLink cards sense the speed of the switch or hub port and configure themselves automatically.
- Flexible cable support. Fast EtherLink 10/100BASE-T4 cards connect to Category 3,

- 4, and 5 UTP cabling; you save the cost of installing new cable.
- Easy to install and manage. Plug and Play compliant with Windows[™] 95, Fast EtherLink cards also come with 3Com's AutoLink[™] autoinstallation software for automatic NIC detection and configuration. To simplify day-to-day operation, the cards provide SNMP manageability and LEDs that show link integrity, activity, and speed of operation.
- High reliability. State-of-the-art design and ASIC hardware integration have earned 3Com network interface cards a worldwide reputation for top quality and reliability.



Fast Ethernet: Scaling Network Performance

How can you give your network users the speed they need?

The easiest, most affordable solution is 100BASE-T, or Fast Ethernet. Fast Ethernet lets you migrate to high-speed networking without having to change your existing cabling, buy expensive equipment, wrestle with interoperability, or support unfamiliar technologies.

When you install a Fast Ethernet solution from 3Com, the leading world-wide supplier of Fast Ethernet cards, you can get the highest throughput rates for the lowest cost of ownership.

Compatible with current 10BASE-T applications and IEEE 802.3u (the 100BASE-T Fast Ethernet standard), 3Com Fast EtherLink cards assure you can add bandwidth to a LAN when and where it's needed. Fast EtherLink PCI cards provide DynamicAccess™ features and the highest performance available for PCI PCs and servers. Fast EtherLink EISA cards deliver unmatched performance for EISA client PCs or servers. Fast EtherLink ISA cards maximize the performance of ISA-only client PCs by using bus mastering technology and

64 K of external RAM to provide ample buffering to the network. You can also extend the benefits of Fast Ethernet enterprise-wide, connecting your 100BASE-T LANs with 3Com's complete line of Fast Ethernet switching and routing products. The diagram below shows how.

Revolutionary XL Cards

You can maximize performance and support real-time applications with Fast EtherLink XL cards. Revolutionary in their performance and functionality, Fast EtherLink XL cards integrate 3Com DynamicAccess features that transform the interface card into an active network component that interacts intelligently with the network.

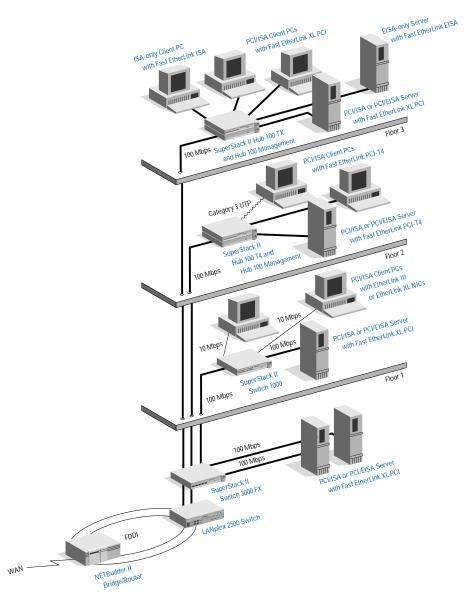
DynamicAccess features include 3Com's PACE Interactive Access technology, dRMON (distributed RMON) support, Efficient Multicast Control, PACE real-time and multimedia applications support, and PictureTel® LiveShare™ Plus dataconferencing software, as well as more features to come with software upgrades.

Many Cabling Alternatives

With Fast EtherLink 10/100BASE-T cards in TX and T4 versions, 3Com ensures you can connect easily to your existing cabling.

The TX versions (for Fast EtherLink ISA, EISA, and XL PCI cards) support 100BASE-TX, the IEEE 802.3 standard for 100BASE-T running over Category 5 UTP ("data grade" UTP) cabling. Fast EtherLink TX cards require only two pairs of wire for 100 Mbps operation.

Fast EtherLink PCI T4 cards support 100BASE-T4, the IEEE 802.3 standard for 100BASE-T running over Category 3, 4, or 5 UTP ("voice grade" UTP) cabling. Fast EtherLink PCI T4 cards require four pairs of wire for 100 Mbps. There is no performance difference between 100BASE-TX and 100BASE-T4.



Fast EtherLink 10/100BASE-T Features and Benefits

Benefits
Highest peak throughput at 10 Mbps or 100 Mbps
Wide data path and fast transfers with low CPU utilization provide optimum system performance
Tunes adapter for optimum performance in PCs and servers
The dual-speed card can run at 10 Mbps or 100 Mbps, automatically sensing and configuring for the speed of the hub or switch port (NWay for XL PCI and ISA)
Flexibility in hub selection and configuration: Cards can automatically connect to virtually any Ethernet hub technology, without any changes
Flexibility to support Category 3, 4, or 5 UTP cable installations. 100 Mbps performance without the cost of installing new cable (Fast EtherLink PCI T4)
Fast, easy installation and automatic detection and configuration of the NIC
Simplify installation and troubleshooting by verifying connection status from the PC
Full compliance with international Ethernet standards
All adapters are guaranteed compatible with any PCI-, ISA-, or EISA-compliant system, or your money back
Compatibility with leading network operating systems and applications in a wide range of LAN environments
Multi-vendor interoperability
Provides 100 Mbps throughput using only two pairs of Category 5 UTP cable (Fast EtherLink XL PCI, Fast EtherLink EISA, Fast EtherLink ISA)
Provides 100 Mbps throughput using four pairs of Category 3, 4, or 5 UTP cabling (Fast EtherLink PCI-T4)
Standards-based 10BASE-T card functionality—can be used with any 10BASE-T hub
SNMP manageability to the desktop level; control links with familiar tools; integrate management with the full range of 3Com's Ethernet and Fast Ethernet products
NICs can dynamically analyze network traffic, tuning network performance
Free application-sharing software from the leader in videoconferencing; discounted upgrades to full videoconferencing
Optimized for switched environments and multimedia applications; First and only true Class of Service (CoS) capability available
Full RMON network management at a low cost in switched or Fast Ethernet networks
Allows desktop applications to control switch multicast filters (IEEE 802.1p) to optimize network performance
Component integration delivers higher reliability and lower cost
Assured reliability, for as long as you own the adapter



Specifications

Fast EtherLink XL and Fast EtherLink 10/100BASF-T Network Interface Cards

3Com Corporation

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Malaysia: 60 3 732 7910 Singapore: 65 538 9368 Taiwan: 886 2 377 5850 Thailand: 662 231 8151 4

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3Com Nordic AB

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3Com South Africa

27 11 807 4397 3Com UK Ltd.

Edinburgh: 44 1312 208228 Manchester: 44 1618 737717 Marlow: 44 1628 897000

Compatibility

EtherDisk Software

Fast EtherLink cards ship with either the 3C90X EtherDisk™ XL (3.5") or 3C5xx EtherDisk™ (3.5") containing drivers for:

- Novell[®] NetWare[™] v2.x and 3.1 (client), 3.12, 4.0, and 4.1 [client and server (except ISA)]
- NDIS version 2.01 and 3.0 compliant systems, including Microsoft® LAN Manager,™ Windows™ 95 (except EISA and PCI-T4). Windows™ NT v3.51 (except ISA), Windows for Workgroups v3.11,.Banyan® and OS/2 (except ISA)

EtherDisk XL also contains drivers for:

· Windows v3.x

HSM v3.2 and 3.3 support is available from 3Com

Other Software

Drivers for other third-party software are available from 3ComBBS or the third party. For a current list of drivers supported, retrieve Document 9071 from the 3ComFacts fax system.

Hardware

Fast EtherLink XL:

PCI bus computers

Fast EtherLink:

- · PCI bus computers
- · EISA bus computers
- ISA bus computers

Connector, Cables, and **Operating Distances**

Fast EtherLink XL, ISA, EISA:

RJ-45 Connector (Female):

10BASE-T: Category 3, 4, or 5 UTP on two pairs up to 328 ft/100 m 100BASE-TX: Category 5 UTP on two pairs up to 328 ft/100 m

Fast EtherLink PCI-T4 only:

RJ-45 Connector (Female):

10BASE-T: Category 3, 4, or 5 UTP on two pairs up to 328 ft/100 m $\,$ 100BASE-T4: Category 3, 4, or 5 UTP on two pairs up to 328 ft/100m

Network Interface

Ethernet IEEE 802.3 industry-standard 10 Mbps baseband CSMA/CD (10BASE-T) and 100 Mbps baseband CSMA/CD (100BASE-T) standards.

Each card has three LEDs. The LED marked "10 LNK" glows green to indicate operation in 10 Mbps mode and link integrity with a 10BASE-T hub. The LED marked "100 LNK" glows green to indicate operation in 100 Mbps mode and link integrity with a 100BASE-T

hub. The LED marked "ACT" flashes yellow when there is link activity in either 10BASE-T or 100BASE-T mode.

Interrupt Levels

XL, PCI: Interrupt line INTA, which conforms with the PCI specification

EISA and ISA: Interrupt Levels 3, 5, 7, 9, 10, 11, 12, 15

I/O Base Address

The card address can be selected via diagnostic software provided on the EtherDisk

XL, PCI: Any 32-bit I/O Base Address. Card occupies 32 bytes of I/O space.

EISA: 16 possible addresses, 200 to 3EO. Card occupies 32 bytes of I/O

ISA: 11 possible addresses, 280 to 3EO in steps of 20.

Transmit/Receive Buffer Memory

Fast EtherLink XL: 8 KB. May be partitioned as 6 KB/2 KB or 4 KB/4 KB.

Fast EtherLink: 64 KB. May be partitioned as 32 KB/32 KB or 48 KB/

Physical Dimensions

Fast EtherLink XL:

Width: 3.375 in/8.57 cm Length: 4.75 in/12.07 cm

Fast EtherLink PCI:

Width: 4.2 in/10.67 cm Length: 5 875 in/14 92 cm Fast EtherLink EISA:

Width: 4.15 in/10.54 cm Length: 6.15 in/15.62 cm

Fast EtherLink ISA:

Width: 4.15 in/10.64 cm Length: 6.15 in/15.76 cm

Power Requirements

Fast EtherLink XL PCI: +5V +/- 5% at 650 mA max

+12V +/- 5% at 50 mA max

Fast EtherLink PCI-T4: +5V +/- 5% at 500 mA max

+12V +/- 5% at 50 mA max

Fast EtherLink EISA: +5V +/- 5% at 1150 mA max.

+12V +/- 5% at 110 mA max

Fast EtherLink ISA:

+5V +/- 5% at 750 mA max.

Operating Ranges

Fast EtherLink EISA, ISA; XL PCI: Temperature: 32° to 158° F (0°-70° C)

Fast EtherLink PCI-T4:

Temperature: 32° t o 131° F (0°-55° C)

Fast EtherLink XL, PCL EISA, ISA: Humidity: 10 - 90% (non-condensing)

Altitude: to 9800 ft/3000 m

Safety and Electromagnetic Compatibility

Fast EtherLink XL: FCC Part 15, Subpart Class B Class A;

EN 55022 Class A (CISPR); VCCI

Fast EtherLink: FCC Part 15, Subpart J Class B: VDE 0871, Class B: EN55022 Class B (CISPR), VCCI Class 2

Customer Support

Quick access to support information is available through the 3ComBBS (electronic bulletin board system) and 3ComFacts interactive fax service.

To reach the 3ComFacts service in the United States or Canada, dial 408-727-7021 and follow the recorded instructions. In Europe call 44 1442 278279. In Hong Kong call 852 537 5610.

To reach the 3ComBBS service from the United States, set your modem to 8 data bits, no parity, and 1 stop bit (8,N,1), then transmit using the following baud rate and U.S. telephone number: Up to 14400 baud; 408-980-8204. To reach the 3ComBBS service from outside the United States, ask your local 3Com office or reseller for the appropriate baud rate and telephone number.

Ordering Information

Fast EtherLink XL PCI

10/100BASE-TX	3C905-TX
5-pack	3C905-TX-5PK
20-pack	3C905-TX-20PK
60-pack	3C905-TX-60PK
Fast EtherLink PCI-	Γ4
10/100BASE-T4	3C595-T4

5-pack 3C595-T4-5PK 20-pack 3C595-T4-20PK Fast EtherLink EISA

10/100BASE-TX 3C597-TX-5PK 5-pack

Fast EtherLink ISA 10/100BASE-TX 3C515-TX 3C515-TX-5PK 5-pack 20-pack 3C515-TX-20PK

Desktop Link Manageability

Transcend EtherLink SmartAgent

3C597-TX

Lifetime Warranty

3Com warrants its Fast EtherLink XL and Fast EtherLink network interface cards to be in good working order for as long as you own them.

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

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