

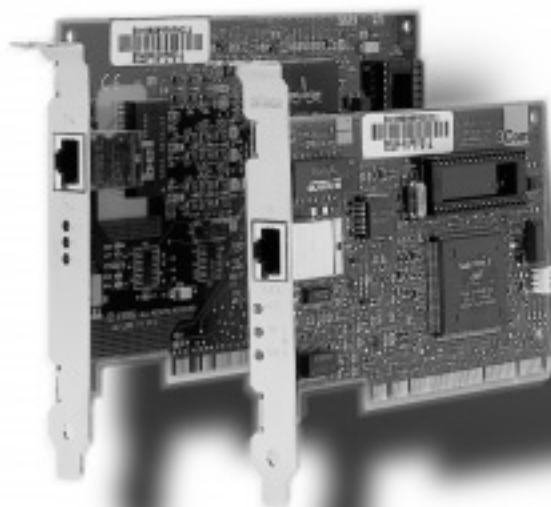
3Com® EtherLink®



10/100 Mbps Desktop Network Interface Cards

High-performance, reliable, and intelligent networking at 10 and 100 Mbps

The EtherLink 10/100 Mbps family of desktop network interface cards (NICs) delivers fast, reliable performance, easy installation and configuration, and more.



Key Benefits

Total reliability. All EtherLink® NICs deliver unmatched 3Com® reliability backed by a lifetime limited warranty.*

Broad compatibility. EtherLink NICs support all major bus types along with the industry's widest range of desktop and network operating systems.

The fastest performance. Patented 3Com Parallel Tasking® and Parallel Tasking II technologies send and receive data simultaneously to maximize throughput and minimize CPU utilization.

Intelligent software. DynamicAccess® technology brings intelligence to ISA and PCI NICs to provide smart solutions to IS problems, including Managed PC capabilities.

Easy installation and configuration. EtherLink ISA NICs feature Installation Wizard and EtherLink PCI NICs include EtherCD™ CD-ROM—both simplify installation and configuration.

*See *User Guide* for details.

3Com leads the world market in 10/100 Mbps Ethernet access solutions. And with 3Com NICs you get a smooth migration to high-speed networking along with unprecedented network functionality. 3Com's solution includes EtherLink® 10/100 Mbps network interface cards (NICs) which deliver the highest performance, reliability, and compatibility available today.

EtherLink 10/100 Mbps NICs use DynamicAccess® technology to add intelligence to NICs and provides smart solutions to Information Systems (IS) problems. 3Com NICs with DynamicAccess technology are part of an integrated solution. With DynamicAccess technology centrally installed and controlled in 3Com servers, IS department's gain visibility of application performance across the entire network and are empowered to optimize the network for business-critical applications. On 3Com's

managed NICs, DynamicAccess technology enables both remote PC power on and management.

3Com EtherLink 10/100 Mbps NICs also feature Parallel Tasking® technology. By simultaneously performing multiple processing tasks, Parallel Tasking technology brings the fastest transfer speeds to your PC systems. And Parallel Tasking II technology boosts the performance of PCI connections, optimizing the design features inherent to the PCI bus.

3Com EtherLink 10/100 Mbps NICs provide a total workgroup solution with high-speed connections for PCI, ISA, and EISA PCs. And together with 3Com EtherLink server NICs and OfficeConnect® and SuperStack® II hubs and switches, 3Com EtherLink 10/100 Mbps NICs are powerful and reliable. Plus, they're the easiest way to migrate to 100 Mbps networking.

Network Interface Cards

High-performance, reliable, and compatible 10/100 Mbps Ethernet NICs

3Com EtherLink 10/100 Mbps Desktop NICs Features and Benefits

Feature	Benefit
Intelligent Software	
Traffic prioritization	Uses the IEEE 802.1p standard to prioritize time-sensitive data and improve the performance of multimedia and business-critical applications.
Performance monitoring	Enables comprehensive, low-cost network management in switched and high-speed networks using RMON-1/RMON-2 for application response time and system-level monitoring.
Efficient Multicast Control	Uses the IEEE 802.1p GMRP standard in combination with 802.1p-compliant switches to improve network performance by controlling multicast flooding in switched LANs
Remote Wake Up (RWU)	Lowers your cost of ownership with remote and after-hours maintenance of PCs with a 3-pin RWU connector on the motherboard and a desktop management application that generates a Magic Packet™ RWU signal.
ACPI compliance	Reduces power consumption and enables Remote Wake Up through the PCI bus.
Desktop Management Interface (DMI)	Lets you use network management software to remotely gain PC resource and inventory information without costly desktop visits.
Optional Managed PC Boot Agent	Enables Pre-OS installations, upgrades, and recovery. Also enables remote visits if running network management software—even when the PC can't boot—to lower the cost of ownership.
Wired for Management (WfM) compliance	Supports WfM industry standards for remote management.
Performance	
Parallel Tasking® II technology	Lowers CPU utilization and increases application performance due to more efficient data transfer across the PCI bus. (PCI models only)
Parallel Tasking technology	Pipelines data for highest throughput at 10 and 100 Mbps.
32-bit bus mastering DMA	Offers a wide data path and fast transfers with low CPU utilization to provide optimum system performance.
Flow Control 802.3x	Delivers higher performance due to more efficient data transfers. Optimizes data transfers by reducing lost packets and retransmissions when the NIC communicates with the switch
TCP/IP Checksum	Offloads the CPU by performing checksum on ASIC to significantly reduce CPU utilization (OS dependent—functional with Windows NT 5.0).
Compatibility and Reliability	
IEEE 802.3 compliance	Provides full compliance with global Ethernet standards.
Guaranteed compatibility	Guaranteed compatible with respective PCI, ISA, or EISA bus-compliant systems or your money back. Also compatible with leading network operating systems and applications in a wide range of LAN environments. Backed by extensive interoperability testing with multi-vendor 10/100BASE-T hubs.
Lifetime limited warranty*	Backed by 3Com's industry-leading lifetime warranty.
Easy Migration to 100 Mbps	
10/100BASE-T flexibility with automatic configuration	Run dual-speed NICs at 10 or 100 Mbps. The NIC automatically senses and configures for the speed of the hub or switch port. (NWay for XL PCI TX and ISA)
Support for 100BASE-TX, 100BASE-FX, or 100BASE-T4	Harness the power of 100 Mbps performance without the cost of installing new cable. T4 flexibly supports 100 Mbps on four pairs of Category 3, 4, or 5 UTP cable. TX provides 100 Mbps throughput on two pairs of Category 5 UTP. Both support Category 3, 4, or 5 UTP cable for 10BASE-T mode. FX enables 100 Mbps over 1300 nm multimode fiber cable up to 2000 m/6550 ft in full-duplex mode (412 m/1250 ft at half duplex).
Migration and flexibility for legacy coaxial networks (10/100 combo only)	Provides support for 10 Mbps coax, thick or thin Ethernet, or twisted-pair Category 3, 4, or 5 with migration support to 100 Mbps via 10/100 RJ-45 port using Category 5 UTP.
Easy Installation and Configuration	
EtherCD™ CD-ROM	Includes an easy-to-use graphic user interface, point-and-click driver installation, driver utilities, enhanced post installation diagnostics, electronic user guide, and diagnostic and diskette creation utilities for easy installation and configuration.
Plug-and-Play for Windows 95 and 98	Provides quick and easy installation in popular operating systems.
Auto-installation software	In NetWare, a single menu choice configures the NIC and installs drivers on non-plug-and-play PCs.

*See *User Guide* for details.

Specifications

EtherLink 10/100 Mbps Desktop Network Interface Cards

Product	EtherLink 10/100 Mbps PCI 3C905C-TX-M/TX-NM	EtherLink 100 Mbps PCI Fiber 3C905B-FX(SC)	EtherLink 10/100 Mbps PCI Combo 3C905B-COMBO	Fast EtherLink 3C515-TX	Fast EtherLink 3C597-TX
Bus Type	PCI	PCI	PCI	ISA	EISA
Cable Type and Connectors (TX, Combo, Fiber)	TX	Fiber	Combo	TX	TX
Software Compatibility					
<i>Ether CD™ or EtherDisk™ software (ships with NIC)</i>					
NetWare client	●	●	●	●	●
DOS ODI	●	●	●	●	●
OS/2 ODI	●	●	●	●	●
ODI32	●	●	●	●	●
NetWare 3.x and 4.x Server Drivers	●	●	●	●	●
Packet Driver	●	●	●	●	●
NDIS 2.01	●	●	●	●	●
NDIS 3	●	●	●	●	●
NDIS	●	●	●	●	●
NDIS 5	●	●	●	●	●
DOS Windows 3.x	●	●	●	●	●
Windows for Workgroups	●	●	●	●	●
Windows 95	●	●	●	●	●
Windows 98	●	●	●	●	●
Windows NT 3.5x and 4.0	●	●	●	●	●
Windows NT 4 for DEC Alpha	●	●	●	●	●
Other Software					
Banyan Vines Server	●	●	●	●	●
SCO UnixWare 7	●	●	●	●	●
SCO Open Server 5	●	●	●	●	●
LINUX	●	●	●	●	●
BSDI Unix	●	●	●	●	●
SunSoft Solaris	●	●	●	●	●
Hardware	PCI bus computer	PCI bus computer	PCI bus computer	IBM PC AT, and PS/2 models and compatibles with ISA buses; ISA bus computers	EISA bus computer
Remote Wake Up	Via PCI 2.2 bus or 3-pin connector for auxiliary power (PC must have a 3-pin Remote Wake Up connector on motherboard) <i>Not available on 3C905B-TX-NM</i>	3-pin connector for auxiliary power (PC must have a 3-pin Remote Wake Up connector on motherboard)	3-pin connector for auxiliary power (PC must have a 3-pin Remote Wake Up connector on motherboard)		
Managed PC Boot Agent	TX-M: Preinstalled TX-NM: Not available	Available separately	Available separately	Not available, TriROM available separately	Not available, TriROM available separately
Network Interface	Ethernet IEEE 802.3 industry standard 10 Mbps baseband CSMA/CD (10BASE-T) and 100 Mbps baseband CSMA/CD (100BASE-T, FX) standards, 10 Mbps baseband CSMA/CD (10BASE2 and 10BASE5).				
LEDs	Each card has three LEDs, except FX which has just 100 LNK and ACT. 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	●	●	●		
Interrupt line INTA, which conforms with the PCI specification				●	●
Interrupt Levels 3, 5, 7, 9, 10, 11, 12, 15					
I/O Base Address	Any 32-bit I/O base address NIC occupies 32 bytes of I/O space	Any 32-bit I/O base address NIC occupies 32 bytes of I/O space	Any 32-bit I/O base address NIC occupies 32 bytes of I/O space	16 possible addresses, 200 to 3E0. NIC occupies 32 bytes of I/O space	11 possible addresses, 280 to 3E0 in steps of 20
Transmit/Receive Buffer Memory	4 KB. 2 KB transmit, 2 KB receive	4 KB. 2 KB transmit, 2 KB receive	4 KB. 2 KB transmit, 2 KB receive	64 KB. May be partitioned as 32 KB/32 KB or 48 KB/16 KB	64 KB. May be partitioned as 32 KB/32 KB or 48 KB/16 KB
Physical Dimensions	Width: 3.375 in/8.57 cm Length: 4.75 in/12.07 cm	Width: 4.25 in/10.8 cm Length: 4.75 in/12.1 cm	Width: 3.6 in/9.15 cm Length: 6.9 in/17.53 cm	Width: 4.15 in/10.54 cm Length: 6.15 in/15.62 cm	Width: 4.15 in/10.64 cm Length: 6.15 in/15.76 cm
Power Requirements	+5V +/- 5% at 600 mA max. +12V +/- 5% at 600 mA +12V	+5V +/- 5% at 600 mA max.	+5V +/- 5% at 600 mA max. +12V +/- 5% at 600 mA +12V	+5V +/- 5% at 1150 mA max.	+5V +/- 5% at 750 mA max. +/- 5% at 110 mA max
Operating Ranges	Temperature: 32 to 158° F (0-70° C) Humidity: 10-90% (noncondensing) Altitude: to 9800 ft/3000 m	Temperature: 32 to 158° F (0-70° C) Humidity: 10-90% (noncondensing) Altitude: to 9800 ft/3000 m	Temperature: 32 to 158° F (0-70° C) Humidity: 10-90% (noncondensing) Altitude: to 9800 ft/3000 m	Temperature: 32 to 158° F (0-70° C) Humidity: 10-90% (noncondensing) Altitude: to 9800 ft/3000 m	Temperature: 32 to 158° F (0-70° C) Humidity: 10-90% (noncondensing) Altitude: to 9800 ft/3000 m
Safety and Electromagnetic Compatibility					
FCC Part 15, Subpart J Class B; CVDE 0871 Class B; EN55022 Class B (CISPR), VCCI Class 2	●	●	●		
FCC Part 15, Subpart Class B, Class A; EN 55022 Class A (CISPR); VCCI			●	●	●



More connected.™

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Ireland: 353 1 823 5000
Manchester: 44 161 874 1700
Winnersh: 44 1189 27 8200

Specifications

Lifetime Limited Warranty

3Com warrants EtherLink 10/100 Mbps and Fast EtherLink network interface cards to be in good working order for as long as you own them.

Customer Support

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

Reach the 3ComFacts service in Canada and the U.S. by dialing 1 408 727 7021 with your touch-tone telephone and following the recorded instructions.

To reach the 3ComBBS service in the U.S., set your modem to 8 data bits, no parity, and 1 stop bit (8,N,1), then transmit with a 53,333 baud rate and U.S. telephone number 1 847 262 6000.

To reach the 3ComBBS service from outside the U.S., ask your local 3Com office or reseller for the appropriate baud rate and telephone number.

Cables and Operating Distances

	EtherLink 10/100 Mbps PCI NIC 3C905C-TX-M/TX-NM	EtherLink 10/100 Mbps PCI Fiber 3C905B-FX(SC)	EtherLink 10/100 Mbps PCI Combo 3C905B-COMBO	Fast EtherLink 3C515-TX	Fast EtherLink 3C597-TX
10BASE-T	Category 3, 4, or 5 UTP on two pairs up to 328 ft/100 m		Category 3, 4, or 5 UTP on two pairs up to 328 ft/100 m	Category 3, 4, or 5 UTP on two pairs up to 328 ft/100 m	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		Category 5 UTP on two pairs up to 328 ft/100 m	Category 5 UTP on two pairs up to 328 ft/100 m	Category 5 UTP on two pairs up to 328 ft/100 m
100BASE-FX		1300 nm multimode fiber up to 2000 m/6500 ft full duplex 412 m/1250 ft half duplex			
10BASE2			608 ft/185 m with thin Ethernet coaxial cable		
10BASE5			AUI connector for attaching a transceiver drop cable supports network segments 1640 ft/500 m		

Ordering Information

EtherLink 10/100 Mbps PCI NIC for complete PC management

10/100BASE-TX, RJ-45	3C905C-TX-M
25-pack	3C905C-TX-M-25PK
100-pack	3C905C-TX-M-100PK

EtherLink 10/100 Mbps NIC

10/100BASE-TX, RJ-45	3C905B-TX-NM
25-pack	3C905B-TX-NM-25PK
100-pack	3C905B-TX-NM-100PK

EtherLink 10/100 Mbps PCI Combo NIC

10/100BASE-TX, RJ-45, AUI, BNC	3C905B-COMBO
5-pack	3C905B-COMBO-5PK
25-pack	3C905B-COMBO-25PK
100-pack	3C905B-COMBO-100PK

EtherLink 100 Mbps PCI NIC

100BASE-FX, SC	3C905B-FX(SC)
5-pack	3C905B-FX(SC)-5PK
25-pack	3C905B-FX(SC)-25PK

Fast EtherLink XL 10/100 PCI T4

10/100BASE-T4	3C905-T4
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Fast EtherLink EISA NIC

10/100BASE-TX, RJ-45	3C597-TX
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Fast EtherLink ISA NIC

10/100BASE-TX, RJ-45	3C515-TX
5-pack	3C515-TX-5PK
25-pack	3C515-TX-25PK

Boot ROMs

Managed PC Boot Agent (MBA) for PXE, BOOTP, RPL, NCP

PCI	3C90X-MBA
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TriROM for BOOTP, RPL, NetWare

ISA	3C515-TRIROM
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technology



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