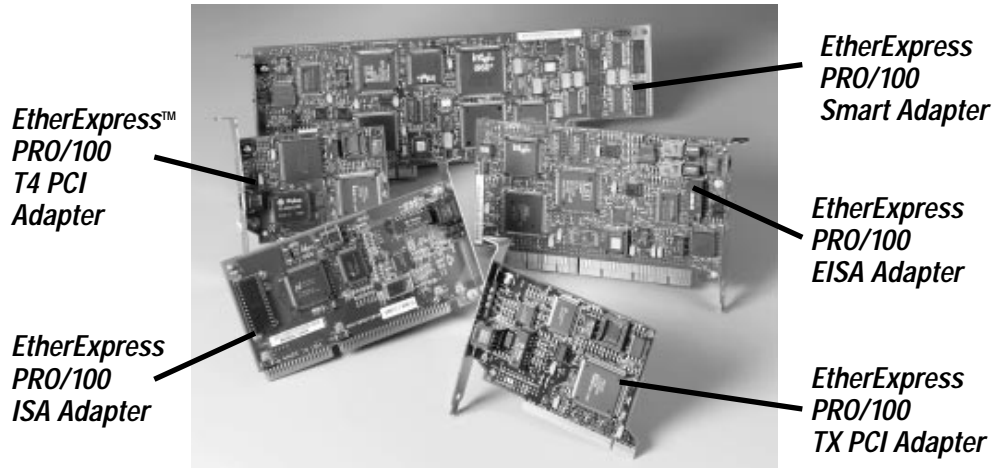


# EtherExpress™ PRO/100 LAN Adapters

*Fastest total system performance for networked clients and servers.*



## KEY FEATURES

- Provides high-speed networking power for Intel Pentium® and Pentium Pro processor-based PCs
- The first adapter card with Adaptive Technology for long-term investment protection
- Low CPU utilization and high throughput let you take advantage of the growing power of today's PCs

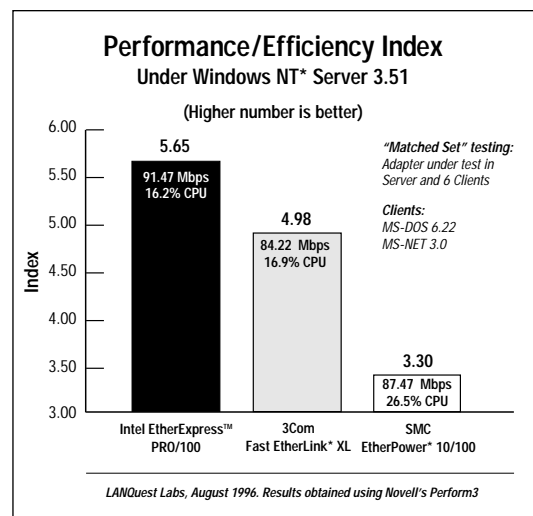
Intel EtherExpress™ PRO/100 LAN Adapters are the total performance solution for networking high-end desktop PCs and servers on Ethernet LANs. With EtherExpress PRO/100 Adapters in clients and the EtherExpress PRO/100 Smart Adapters in servers, you'll see dramatic performance improvements, whether you're using standard Ethernet or Fast Ethernet. Optimized for Intel's powerful Pentium® and Pentium Pro processor-based PCs, these adapters minimize CPU utilization and boost throughput – you get top performance with even the most demanding applications and operating environments. EtherExpress PRO/100 Adapters are the efficient way to make the most of your network's computing power.

### Intel Adaptive Technology protects your adapter investment

With Intel Adaptive Technology, there's no need to swap adapter cards to keep up with ever-changing technology. EtherExpress PRO/100 PCI Adapters come with the Intel 82557 Fast Ethernet LAN controller, so you can easily update the adapter's hardware via "reloadable microcode" software updates.

### Self-tunes to match the toughest performance demands

Adaptive Technology also enables powerful Collision Reduction technology to optimize performance – the adapter intelligently monitors network traffic and tunes itself for best performance. Ideal for heavy-traffic networks with 32-bit operating systems like Windows® 95 and Windows NT® and other demanding applications.



*Intel EtherExpress™ PRO/100 adapters combine great throughput with low CPU utilization, so data flows quickly and desktop systems and servers can devote more of their resources to application performance.*

# Intel EtherExpress™ PRO/100 LAN Adapters

AWARDS



March 27, 1995



December 19, 1995

PC Magazine  
Best of 1995

January 9, 1996



November 1, 1995

Well Connected Award

April 1, 1996



July, 1995

## *Easiest way to migrate to Fast Ethernet computing*

Able to run at either 10 or 100Mbps, EtherExpress PRO/100 Adapters automatically sense the speed of the hub port to which they are connected. You can install them on your high-end clients and servers running at 10Mbps now, and let the adapter's high speed architecture give you maximum Ethernet performance. Then effortlessly switch to 100Mbps Fast Ethernet in the future – without changing the configuration or updating the drivers.

## Intel Fast Ethernet Adapters

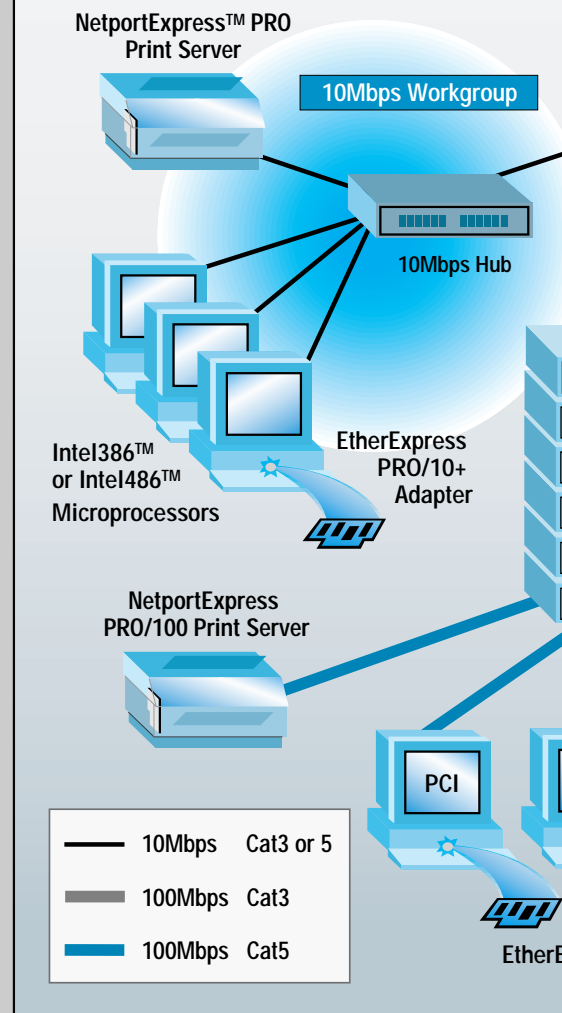
### *EtherExpress PRO/100 TX PCI Adapter*

For PCI-bus servers and clients using the 100BASE-TX standard running over Cat5 wiring. When connected to a switching hub, the adapter will auto-negotiate to full-duplex operation, doubling the available bandwidth. Designed with a 32-bit busmaster architecture to provide the right balance of high throughput and low CPU utilization for the best efficiency, and equipped with Intel Adaptive Technology.

### *EtherExpress PRO/100 T4 PCI Adapter*

32-bit busmaster architecture ensures fastest total system performance with PCI-bus servers and clients using the 100BASE-T4 standard running over Cat3 wiring. Includes built-in Intel Adaptive Technology to protect your technology investment.

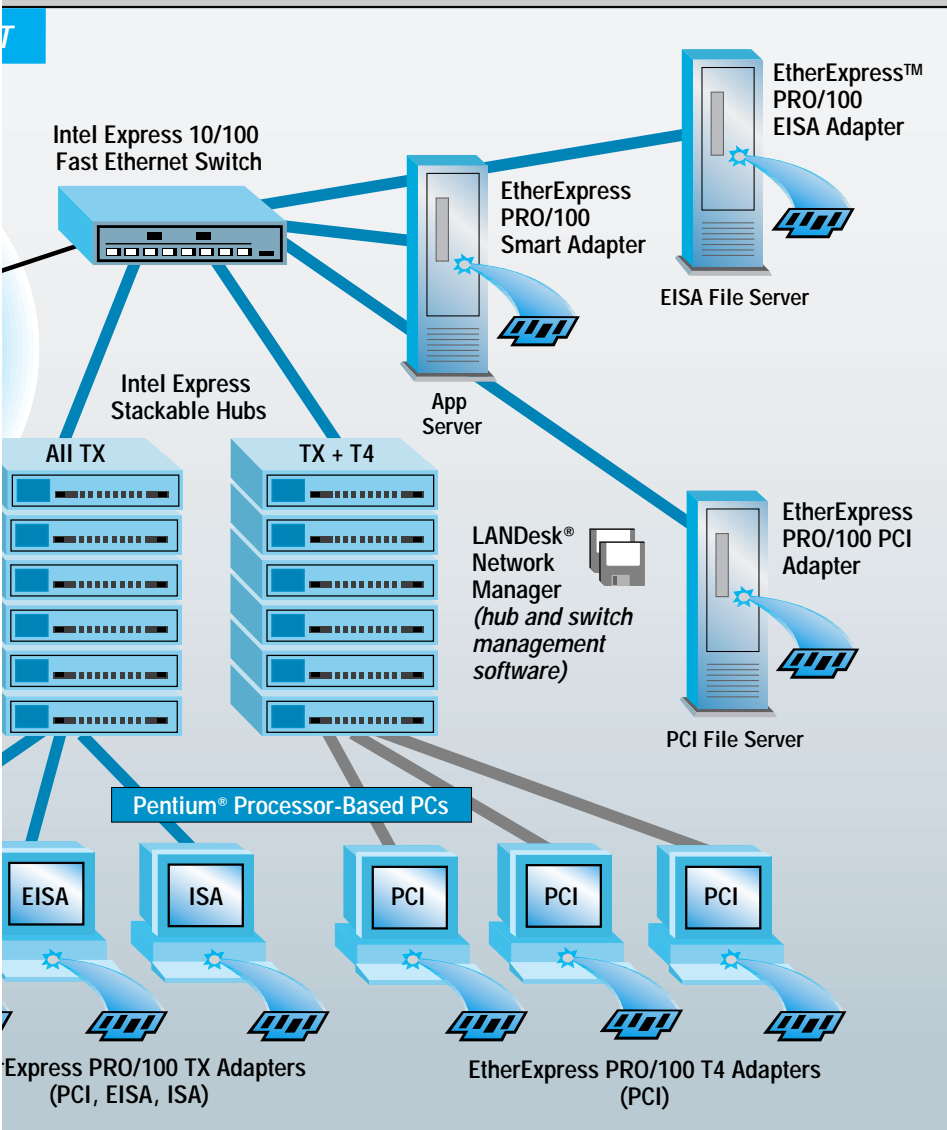
## FAST ETHERNET DEPLOYMENT



Today's high performance operating systems and bandwidth bottlenecks that slow workgroup performance. With Intel making the move to high speed networking. Future-proof then go to 100Mbps on an "as-needed" basis using Intel

### *EtherExpress PRO/100 TX EISA Adapter*

Increase the performance of your EISA file servers while also enabling them for 100Mbps operation by installing the market-leading EtherExpress PRO/100 Adapter. The RJ-45 connector supports both 10 and 100Mbps operation.



width-hungry applications like CAD/CAM, multimedia or the Internet can cause data el's Fast Ethernet family of products, you can easily unplug those bottlenecks by of your Pentium® processor-based machines with EtherExpress™ PRO/100 Adapters, el Fast Ethernet products.

## Intel Fast Ethernet Workgroup Solution

*Because they're based on the proven 10BASE-T Ethernet technology, Intel's Fast Ethernet products will fit seamlessly into your existing Ethernet network and allow you to migrate gradually to 100Mbps as your needs evolve.*

### Intel Express Stackable Hub

*When the time comes to move to Fast Ethernet, connect your EtherExpress™ PRO/100 clients to the 12-port Intel Express Stackable Hub to provide a 100Mbps connection. You can stack up to six hubs.*

### Intel Express 10/100 Fast Ethernet Switch

*Use these switches to deploy dedicated 100Mbps bandwidth to your high performance workgroups, and at the same time provide 10Mbps support for legacy network segments.*

### LANdesk® Network Manager

*This optional software tool allows Windows®-based management of Express Stackable Hubs and Express Switches, including viewing, configuring, managing and monitoring within a workgroup environment.*

### Intel NetportExpress™ PRO/100 Print Server

*The easiest way to take control of your network printing. 10/100Mbps connectivity lets you future-proof your network printing for Fast Ethernet. NetportExpress PRO/100 print servers provide a high-performance, centrally managed and reliable solution for connecting new and existing printers to your network.*

### EtherExpress PRO/100 TX ISA Adapter

Intel also makes an EtherExpress PRO/100 Adapter for your ISA servers and clients. It supports 10BASE-T and 100BASE-TX, and permits full-duplex operation with auto-negotiation for increased bandwidth.

### EtherExpress PRO/100 TX Smart Adapter

Fast becoming the standard for PCI application servers, the EtherExpress PRO/100 Smart Adapter is equipped with an on-board i960® processor and 2MB of memory to further minimize use of the server CPU. Also includes Minor Service Link (MSL)/SFT3 drivers, virtually eliminating server downtime.

# Intel EtherExpress™ PRO/100 LAN Adapters

## INTEL ETHERNET ADAPTER FEATURE GUIDE

Bus architecture	PCI		PCI	EISA	ISA
Product name	EtherExpress™ PRO/100		EtherExpress PRO/100 Smart	EtherExpress PRO/100	EtherExpress PRO/100
IEEE Standard	10BASE-T, 100BASE-TX	10BASE-T, 100BASE-T4	10BASE-T, 100BASE-TX	10BASE-T, 100BASE-TX	10BASE-T, 100BASE-TX
Wiring	Cat5, 2pr	Cat3,4, 5, 4pr	Cat5, 2pr	Cat5, 2pr	Cat5, 2pr
Product code: Connectors	PILA8465B: RJ-45	PILA8475B: RJ-45	PILA8485: RJ-45	EILA8265: RJ-45	PCLA8560
<b>ADAPTER PRODUCT FEATURES</b>					
Adaptive Technology	Yes		No	No	No
Multi-packs available	5, 20 & 80 packs	5 & 20 packs			5 & 20 packs
Switchless board configuration	■		■	■	■
Plug 'n Play specification support	Standard		Standard	N/A	■
Automatic driver installation	■		■	■	■
Boot ROM support	upgrade option				
Full Duplex Capable	■ (TX only)				■
Auto-Negotiation	■ (TX only)				■
<b>NETWORK MANAGEMENT</b>					
DMI-ready	■		■	■	■
Board and network diagnostics	■		■	■	■
SNMP-manageable with SNMP Gateway	■		■	■	■
Remote node management software	LANDesk® Express free on BBS		LANDesk Express free on BBS	LANDesk Express free on BBS	
<b>NOS SOFTWARE SUPPORT</b>					
Artisoft LANtastic® (NDIS 2.01)	■			■	■
Banyan Vines® Client (NDIS 2.01)	■			■	■
DEC PathWorks® (NDIS 2.01)	■			■	■
FTP PC/TCP for DOS (NOS 2.01)	■			■	■
IBM LAN Server® (NDIS 2.01)	■			■	■
IBM OS/2, WARP (NDIS 2.01)	■			■	■
Microsoft LAN Manager® (NDIS 2.01)	■			■	■
Microsoft WWF® (NDIS 3.11)	■			■	■
Microsoft Windows NT® 3.5 (NDIS 3.x)	■		■	■	■
Microsoft Windows® 95 (NDIS 3.x)	■			■	■
Novell NetWare® 3.11, 3.12 & 4.1x Server	■		■	■	■
Novell NetWare DOS ODI Client	■		■	■	■
Novell NetWare OS/2 ODI Requestor	■			■	■
Novell NetWare NT ODI Requestor	■			■	■
SunSoft PC/NFS (NDIS 2.01)	■			■	■
SunSoft Solaris®	■			■	■
SCO UnixWare®	■			■	■
Wollogong Pathway Access® (ODI)	■			■	■
<b>TECHNICAL FEATURES</b>					
Data rate(s) supported	10 & 100 Mbps		10 & 100 Mbps	10 & 100 Mbps	10 & 100 Mbps
On-board memory	6KB cache		2MB	16KB	8KB
Interrupt levels	INTA		INTA	Software selectable	Software selectable
I/O base addresses	N/A		N/A	Slot specific	Software selectable
Full IEEE compliance	802.2 & 802.3		802.2 & 802.3	802.2 & 802.3	802.2 & 802.3
Data path width	32-bit		32-bit	32-bit	16-bit
Hardware certifications	FCC B, CE		FCC B, CE	FCC B, CE	FCC B, CE
Data transfer mode	Busmaster DMA		Busmaster DMA	Busmaster DMA	Programmed I/O
Controller or processor	Intel 82557		Intel 82556 & 1960	Intel 82556	National
Power requirement	5Watts @+5VDC		15Watts @+5VDC	5Watts @+5VDC	2.5Watts @+5VDC
Operating temperature	+10-55°C		+10-55°C	+10-55°C	+0-55°C
Operating Humidity	85% at +55°C		85% at +55°C	85% at +55°C	80% at +55°C
<b>INTEL BACKING</b>					
Limited lifetime warranty	■		■	■	■
90-day money-back guarantee	■		■	■	■
PCI compatibility guarantee	■		■	■	■

## COMPANION PRODUCTS

Consider these related Intel products as a factor in your network planning.

- *Express 100BASE-T Stackable Hubs*
- *Express 10/100 Fast Ethernet Switch*
- *LANDesk® Network Manager*
- *NetportExpress™ PRO/100 Print Server*



## CUSTOMER SUPPORT

Intel Customer Support Services offer a broad selection of tiered support programs. For more information: visit us on the World Wide Web at <http://www.support.intel.com> or call 800-538-3373, ext. 276, or order FaxBack® 8549 at 800-525-3019.

## FOR PRODUCT INFORMATION

World Wide Web	<a href="http://www.intel.com/network">http://www.intel.com/network</a>
U.S. and Canada	800-538-3373 or 503-264-7354
Europe	+44-1793-431-155
Japan	+81-298-47-0800
Hong Kong	+852-2-844-4524
Taiwan, Korea, Singapore and ASEAN	+65-735-3811
Australia	+61-2-9937-5800

## FOR MORE INFORMATION, ORDER THESE FAXBACK® DOCUMENTS

Fast Ethernet Overview and Deployment Guide	6354
Express Stackable Hub Data Sheet	8589
Express 10/100 Fast Ethernet Switch Data Sheet	8503
High-Performance Solutions for Workgroups	1308
Adaptive Technology Technical Brief	1034
Performance Testing Report	6389
Intel Branded Products Price List	9000

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