

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
ADAPTER PRODUCT FEATURES					
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)		■	■	■
NETWORK MANAGEMENT					
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	
NOS SOFTWARE SUPPORT					
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 WW* (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)	■		■	■	■
TECHNICAL FEATURES					
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 & i960	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
INTEL BACKING					
Limited lifetime warranty	■		■	■	■
90-day money-back guarantee	■		■	■	■
PCI compatibility guarantee	■		■	■	■

FOR PRODUCT INFORMATION

World Wide Web	http://www.intel.com/comm-net/sns/
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 Switching Hub Data Sheet	8503
High-Performance Solutions for Workgroups	1308
Adaptive Technology Technical Brief	1034
Performance Testing Report	6389
Intel Branded Products Price List	9000

Call 503-264-6835, 800-525-3019, or find us on the World Wide Web: <http://www.intel.com/comm-net/sns/>

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COMPANION PRODUCTS

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

- Express 100BASE-T Stackable Hubs
- Express 100BASE-TX Switching Hub
- Express 10/100 Downlink



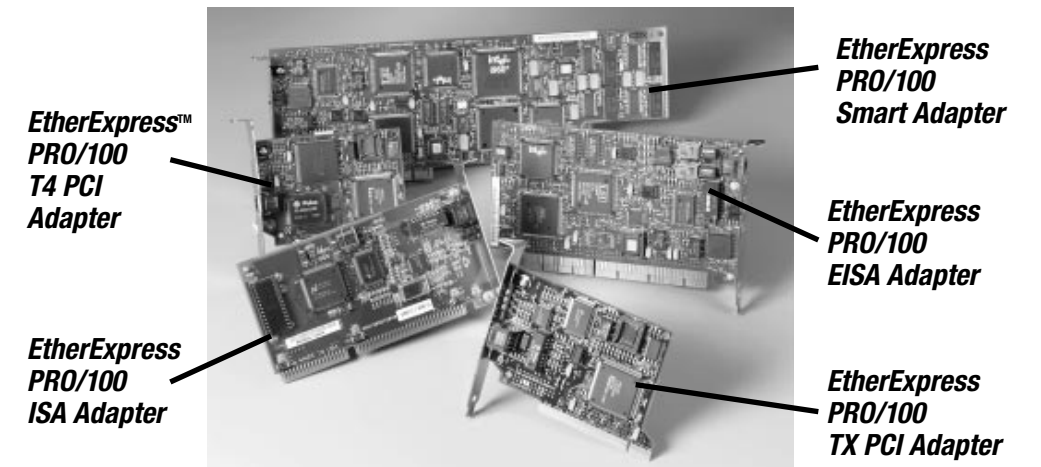
Fastest total system performance for networked clients and servers.

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



EtherExpress™ PRO/100 LAN Adapters



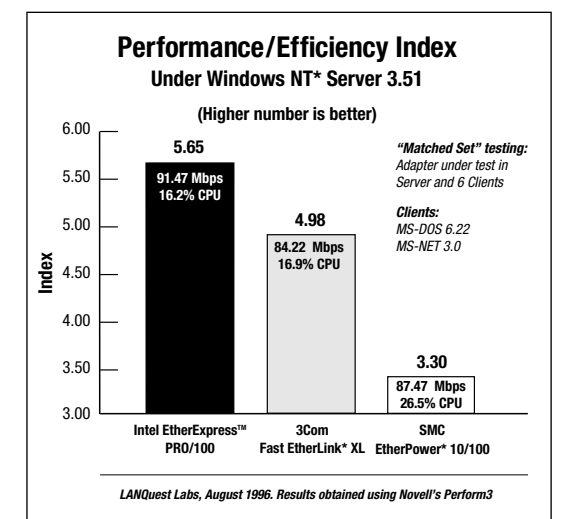
Intel EtherExpress™ PRO/100 LAN Adapters are the total performance solution for networking high-end desktop PCs and servers on Ethernet LANs. With EtherExpress PRO/100 Adapters in clients and the EtherExpress PRO/100 Smart Adapters in servers, you'll see dramatic performance improvements, whether you're 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.

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.

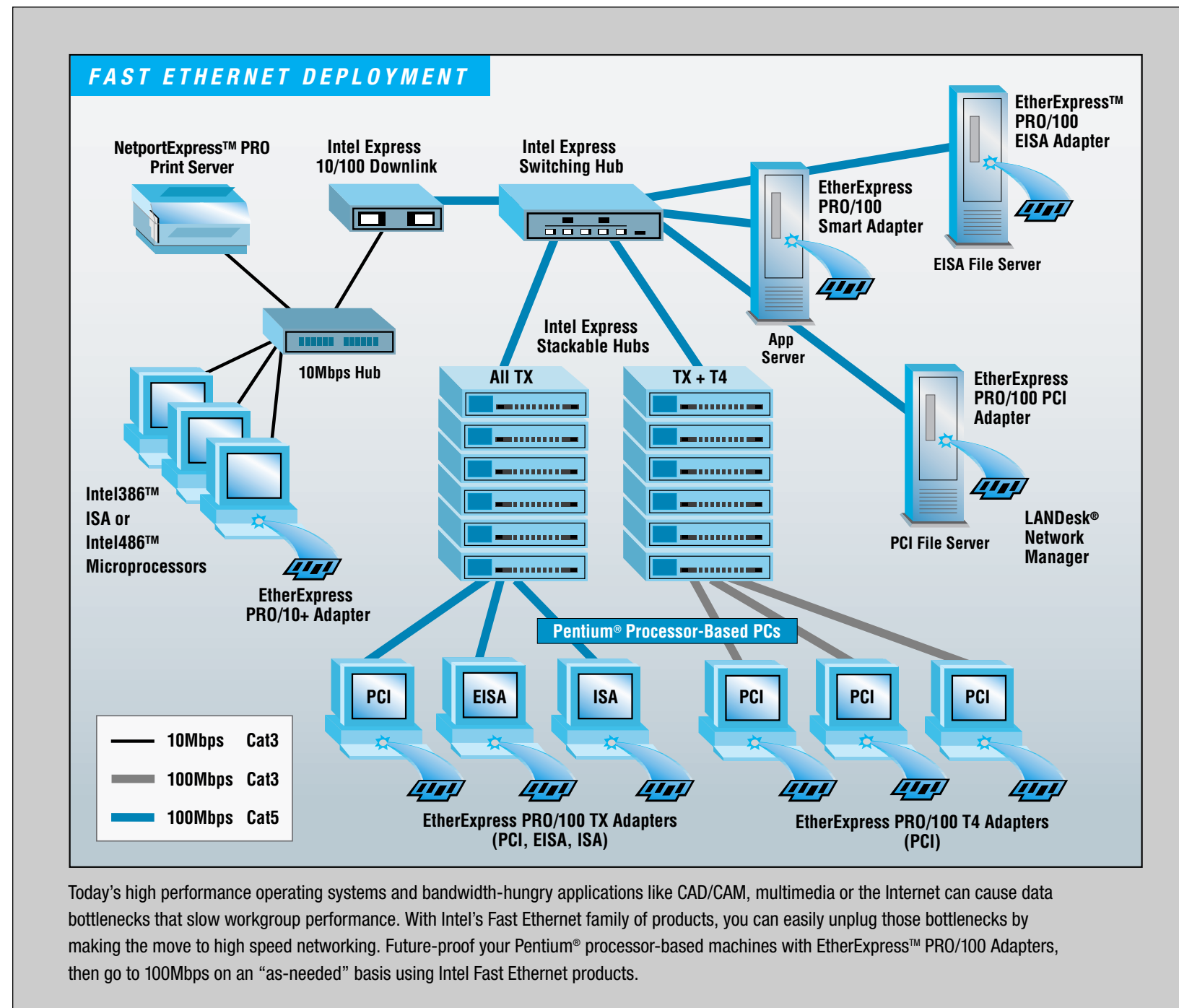
Intel Fast Ethernet Adapters

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.



Today's high performance operating systems and bandwidth-hungry applications like CAD/CAM, multimedia or the Internet can cause data bottlenecks that slow workgroup performance. With Intel's Fast Ethernet family of products, you can easily unplug those bottlenecks by making the move to high speed networking. Future-proof your Pentium® processor-based machines with EtherExpress™ PRO/100 Adapters, then go to 100Mbps on an "as-needed" basis using Intel Fast Ethernet products.

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.

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 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 Switching Hub

Use these switches to deploy dedicated, industry-standard 100Mbps to your servers, hubstacks or desktops. You'll increase responsiveness up to 10 times over traditional 10Mbps Ethernet response times.

Intel Express Media Adapters

Available options include a 100BASE-TX module and 100BASE-FX fiber modules for the Express Switching Hub, and the Express Stackable Hub.

LANDesk® Network Manager

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

Intel Express 10/100 Downlink

Install a downlink to connect your 100Mbps workgroup to your 10Mbps LAN. The downlink can also be used to connect your 100Mbps workgroup to print servers or other legacy systems running at 10Mbps.