Intel EtherExpress™ PRO/100 Adapter Family

Fastest total system performance for networked clients and servers.

Intel EtherExpress™ PRO/100 Adapters are the total performance solution for networking your high-end clients and servers over 10 and 100Mbps Ethernet LANs.

Designed for systems using the Intel Pentium® processor[1] and the PCI bus,[2] EtherExpress PRO/100 Adapters are the proven, easy-to-integrate network adapter cards that can dramatically improve total system performance – and user productivity.

With PRO/100 adapters in client PCs and PRO/100 Smart Adapters in servers, you'll see maximum network throughput over standard Ethernet or Fast Ethernet. And, because the adapters' high performance architecture minimizes CPU utilization, your PCs have more computing power for even the most demanding applications and operating environments, both now and in the future.
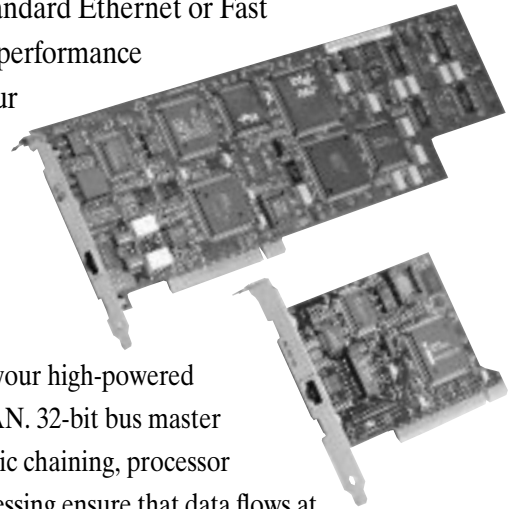
Unplug all your network bottlenecks

PRO/100 adapters extend the performance of your high-powered desktop systems and servers right onto the LAN. 32-bit bus master architecture, including features such as dynamic chaining, processor pacing technology, and reduced overhead processing ensure that data flows at top speeds on and off the LAN. Plus, to meet the additional demands placed on high-performance network servers, the PRO/100 Smart Adapter comes with an on-board i960® processor that offloads the host CPU and delivers even lower CPU utilization and faster throughput.

Thanks to the lowest CPU utilization in the industry, the PRO/100 family frees your Pentium processor-based systems to do what they do best – deliver top application performance. Teamed up with Fast Ethernet and the PCI bus, the PRO/100 adapters truly make it practical to use applications directly from the server. The result: total network performance.

Seamless migration from 10 to 100Mbps networking: one driver, one connector. Autosenses hub speed.

The EtherExpress PRO/100 Adapters are the easiest way to migrate from 10 to 100Mbps Ethernet. PRO/100 adapters run at 10 or 100Mbps depending on the speed of the hub port to which they're attached. So workstations on 10Mbps LANs can take advantage of the high performance design and high speed PCI bus right from the start. When you're ready to switch to 100Mbps, just change the hub connection to a 100Mbps port. The card will automatically run at the new speed – a single RJ-45, wiring configuration, and all included drivers support both 10 and 100Mbps operation. With a switching hub, some nodes can even run at 100Mbps while others run at 10Mbps on the same segment.

Features at a glance

- *Lowest CPU utilization for highest total system performance*

- *High performance architecture for maximum speed at 10 or 100Mbps*

- *Seamless migration from 10Mbps to 100Mbps Fast Ethernet*

- *Easy installation with no switches or jumpers, automatic configuration*

- *100BASE-TX full duplex capability on PRO/100 PCI LAN Adapter allows for twice the bandwidth*

- *Auto-negotiation on PRO/100 LAN Adapter, coupled with an auto-negotiating hub, senses the highest common speed and configuration*

- *On-board i960® processor on PRO/100 Smart Adapter further minimizes use of server CPU*

Related Products

- *LANDesk® Management Suite*
- *LANDesk SNMP Gateway*
- *StorageExpress™ System*

intel®

Intel EtherExpress™ PRO/100 Adapters

Easy integration into existing Ethernet environments

EtherExpress PRO/100 Adapters are designed to comply with Ethernet standards such as the IEEE 802.2, 802.3, 10BASE-T and 100BASE-TX. Because the PRO/100 adapters use Ethernet's CSMA/CD protocol, they can be easily integrated into existing Ethernet environments and don't require speed-matching bridges.
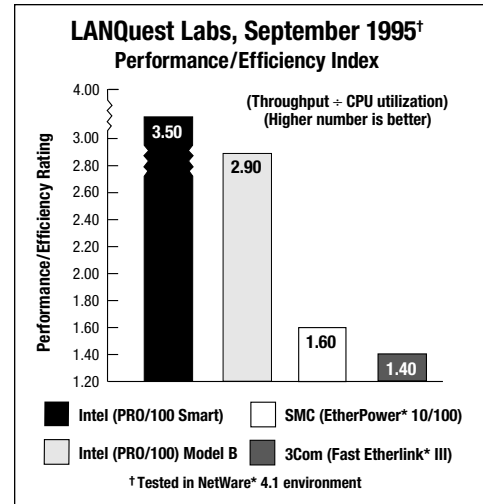
Choice of management tools

Choose from two convenient ways to manage your client PCs:

- Desktop Management Interface (DMI) support for management by DMI-compliant applications
- SNMP management of IPX workstations, available through the LANDesk® SNMP Gateway

Money-back guarantee

Intel backs the EtherExpress PRO/100 Adapters with a satisfaction-guaranteed, 90-day money back refund policy, a PCI compatibility guarantee, and a limited lifetime warranty.

LANQuest Labs, September 1995[†]
Performance/Efficiency Index

(Throughput ÷ CPU utilization)
(Higher number is better)

- Intel (PRO/100 Smart): 3.50
- Intel (PRO/100) Model B: 2.90
- SMC (EtherPower* 10/100): 1.60
- 3Com (Fast Etherlink* III): 1.40

[†] Tested in NetWare* 4.1 environment

Intel PRO/100 adapters combine great throughput with the industry's lowest CPU utilization, so data flows quickly and desktop systems and servers can devote more of their resources to application performance.

Product	Designed for	Order Number
EtherExpress™ PRO/100 LAN Adapter (PCI)	100BASE-TX	PILA8465B[†]
EtherExpress PRO/100 Smart Adapter (PCI)	100BASE-TX	PILA8485
EtherExpress PRO/100 LAN Adapter (EISA)	100BASE-TX	EILA8265

[†] Also available in 5-packs and 20 packs

FaxBack* Document	Document Number
Fast Ethernet Strategy White Paper	6354
Fast Ethernet Deployment Guide	6369
LANQuest Labs Performance Testing	6389
Intel Branded Products Price List	9000

Call 800-525-3019 or 503-264-6835 to order FaxBack documents.

Product Information

U.S. and Canada	800-538-3373 or 503-264-7354	**Hong Kong, Taiwan, Korea, Singapore and ASEAN**	+65-735-3811
Europe	+44 1793-431155	**Australia**	+61-2-937-5800
Japan	+81-298-47-1841	**World Wide Web**	http://www.intel.com

[1] PRO/100 adapters also work with Intel486™ processor-based PCs.
[2] PRO/100 adapters are available for PCI and EISA buses. PRO/100 Smart Adapters are available for the PCI bus only.

Intel Ethernet Adapter Feature Guide

		PCI	PCI	EISA
	Bus architecture			
	Product name	EtherExpress™ PRO/100	EtherExpress PRO/100 Smart	EtherExpress PRO/100
	Product code: Connectors	PILA8465B: RJ-45	PILA8485: RJ-45	EILA8265: RJ-45
	IEEE Standard	10BASE-T, 100BASE-TX	10BASE-T, 100BASE-TX	10BASE-T, 100BASE-TX
	Multi-packs available	5 & 20 packs		
ADAPTER PRODUCT FEATURES	Switchless board configuration	■	■	■
	Plug 'n Play specification support	Standard	Standard	N/A
	Price/Performance leadership	■	■	■
	Automatic driver installation	■	■	■
	Boot ROM support	upgrade option Q1 '96		■
	Full Duplex Capable	■		
	Auto-Negotiation	■		
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)	■		■
	Microsoft LAN Manager* (NDIS 2.01)	■		■
	Microsoft DOS* & OS/2* v2.01 (NDIS 2.01)	■		■
	Microsoft WfW* (NDIS 3.1)	■ (2.0)		■
	Microsoft Windows NT* 3.5 (NDIS 3.1)	■		■
	Microsoft Windows '95* (NDIS 3.1)	■		■
	Novell NetWare* 3.11, 3.12 & 4.1x Server	■	■	■
	Novell NetWare DOS ODI Client	■		■
	Novell NetWare OS/2 ODI Requestor	■		■
	Novell UnixWare*	Q4 '95		■
	SunSoft PC/NFS (NDIS 2.01)	■		■
	SunSoft Solaris*	Q1 '96		Q4 '95
	SCO UNIX*	Q1 '96		■
	Wollogong Pathway Access* (ODI)	■		■
TECHNICAL FEATURES	Data rate(s) supported	10 & 100 Mbps	10 & 100 Mbps	10 & 100 Mbps
	On-board memory	6KB cache	16KB	16KB
	Interrupt levels	INTA	INTA	Software selectable
	I/O base addresses	N/A	N/A	Slot specific
	Full IEEE compliance	802.2 & 802.3	802.2 & 802.3	802.2 & 802.3
	Data path width	32-bit	32-bit	32-bit
	Hardware certifications	FCC B, VDE B,CE	FCC B, VDE B,CE	FCC B, VDE B,CE
	Data transfer mode	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA
	Controller or processor	Intel 82557	Intel 82556 & i960	Intel 82556
	Power requirement	5Watts @+5VDC	15Watts @+5VDC	5Watts @+5VDC
	Operating temperature	+10-55°C	+10-55°C	+10-55°C
	Operating Humidity	85% at +55°C	85% at +55°C	85% at +55°C
INTEL BACKING	Limited lifetime warranty	■	■	■
	90-day money-back guarantee	■	■	■
	PCI compatibility guarantee	■	■	

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