

# Intel EtherExpress™ PRO/10 Adapter - Hardware and Software Compatibility Technical Report

Ethernet networks are mission critical and complex. Workgroups, departments, and entire organizations depend upon network applications such as E-mail and group schedulers and the ability to share expensive peripheral devices. Because they are integrated with many devices and software programs, individual Ethernet network components require the highest degree of *verified* compatibility and interoperability. Intel EtherExpress products are stringently tested to verify trouble-free compatibility and interoperability with the software and hardware products in Ethernet network environments.

Hundreds of hours of compatibility testing by Intel and two independent laboratories (Ingram Labs and XXCal) proves the Intel EtherExpress family's compatibility in multi-vendor network environments. The test suites verify the range of Ethernet functions on numerous PCs and network operating systems (NOS'), using a variety of peripheral devices. Intel EtherExpress product verification concentrates on three key aspects of LAN adapter compatibility:

1. Platform compatibility with workstation nodes
2. Interoperability with network devices and with other adapters on the network
3. Compatibility with NOS' and application software

## Platform Compatibility with Workstation Nodes

Intel EtherExpress PRO/10 cards should operate in any industry standard architecture (ISA) 8-or 16 bit system and in any extended industry standard architecture (EISA) 32-bit system (in the adapter's 16-bit mode). The tables below list those systems in which the cards have been verified to operate. Intel is constantly updating the systems that are tested with EtherExpress cards, so please call if you have a question about a system that is not on this list.

Acer Altos 7000 Pentium 90  
Acer Acros 486/66  
ALR Evolution Pentium 60/66  
ALR Veisa 486/25  
Ambra Pentium 60  
Ambra 486 486/33  
AST Bravo 486/33  
AST Premmia 286/16  
AST Premmia 386/33  
AST Premmia 486/33  
AST Premmia 486/66  
AST 486  
AT&T 486/66  
AT&T Pentium 60

Austin 486 486/50  
Compaq 386S 386SX/16  
Compaq 386N 386  
Compaq 386S20 386SX/20  
Compaq 486/50 486/50  
Compaq Deskpro Pentium 66  
Compaq Deskpro Pentium 60  
Compaq EX560 Pentium 60  
Compaq Deskpro L 386/33  
Compaq Deskpro L 486/66  
Compaq Praline 486/33  
Comtrade Pentium 66  
DEC 486/33  
DEC XL560 Pentium 60

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DELL 210 286/12	Gateway 2000 Pentium 60
DELL 386/25	HP Corsa 486/66
DELL 425E 486/25	HP Vectra Pentium 60
DELL 425T 486/25	IBM AT 286/8
DELL 450DE 486/50	IBM PS/2 8086/8
DELL 486 P/33 486/33	IBM XT 8088/4
DELL 486M 486/66	IBM Valuepoint 386SX/20
DELL Netplex 486/33	IBM Valuepoint 486/33
DELL Omniplex 60 Pentium 60	Micron DX4 486/100
DELL Omniplex 66 Pentium 66	NEC Powermate 486/33
Epson Equity 386SX/25	Packard Bell 486 486/66
Fujitsu DX4 486/100	Packard Bell 486 486/50
Gateway 2000 486/66	Zeos 486 486SX/25

## Interoperability with Network Devices and Other Adapters

Intel EtherExpress PRO/10 LAN adapters should operate with any combination of Ethernet NICs and other devices. The tables below list those products with which the cards have been verified as compatible.

### Network Interface Cards

Intel EtherExpress Adapters  
Intel TokenExpress™ Adapters  
Novell NE2100  
National Ethernet  
Gateway Ethernet  
3COM EtherLink III  
Eagle NE2000  
Mylex Ethernet LAN  
Western Digital Elite 16  
SMC Elite 16C Ultra

### Video Cards

ATI Ultra Graphics PRO/10  
ATI Graphics Wonder  
Creative Labs Video Blaster  
DFI VG-7000 VGA  
Diamond Viper  
Diamond Speedstar  
Genoa VGA  
#9 GXE  
Hercules VGA  
Orchid Fahrenheit 1280  
Paradise SVGA

### Disk Controllers

Adaptec 1742C SCSI  
Adaptec 1542  
Adaptec AHA-2940  
Future Domain TMC-1690 SCSI

### Modems

US Robotics Dual Standard 16.8  
Intel 14.4 External  
Intel SatisFAXtion 400E  
Hayes Internal 14.4

### Sound Cards

Media Vision Proaudio Spectrum 16  
Creative Labs Sound Blaster ASP  
Creative Labs Sound Blaster II  
Turtle Beach Multisound  
Microsoft Windows Sound System  
Orchid Sound Wave

### Miscellaneous

Irwin 250 Internal Tape Backup  
Iomega Bernoulli Box Disk Backup  
NEC CD-ROM  
Sony 541 CD-ROM  
Epson EC-300 Scanner  
Logitech Scanner  
IBM PS/2 Mouse  
Logitech Mouse  
Microsoft Mouse  
Novell SAA Gateway  
IBM 3270 Adapter

## **Compatibility with Network Operating Systems (NOS')**

NIC software compatibility hinges upon compatibility with the NOS. The NOS is key because it is the interface between the NIC and other software. Following is a list of the NOS' which are verified as compatible with Intel EtherExpress cards.

### **Artisoft**

LANtastic v4.1 (available September 1994)

LANtastic v5.0

### **Banyan**

Banyan VINES Server v5.5x (available November 1994)

Banyan VINES DOS Workstation v4.11, v.5.5x (NDIS)

### **DEC**

DEC Pathworks v4.x NDIS Workstation

DEC Pathworks v4.x OS/2 Workstation

### **IBM**

IBM LAN Server v2.0

IBM LAN Server v3.0

### **Microsoft**

Windows NT v3.1

Windows for Workgroups 3.1

Windows for Workgroups 3.11

LAN Manager NDIS DOS v2.x

LAN Manager NDIS OS/2 v2.x

LAN Manager NDIS Server v2.x

Microsoft NDIS 2.01 RPL

### **Novell**

NetWare IPX Workstation

NetWare ODI DOS Workstation

NetWare ODI OS/2 Workstation

NetWare Lite v1.0, 1.1

NetWare 2.x Server

NetWare 3.1x Server

NetWare 4.0x Server

NetWare Windows NT Requestor

LAN Workplace for DOS

Novell NetWare RPL

### **Unix**

SCO Unix and SCO Open Desktop v3.2.4

SunSoft PC-NFS v5.1 (NDIS)

FTP PC/TCP DOS NDIS

FTP PC/TCP OS/2 NDIS

Interactive v4.0 NDIS (available September 1994)

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Solaris v2.1 NDIS (available September 1994)  
UNIXWare NDIS (available September 1994)

## Other

NextStep v3.1 (available September 1994)  
Wollongong WIN/TCP DOS  
Wollongong Pathway Access DOS/NDIS  
Packet Driver  
Reflexion Network Series NDIS  
Hayes LanStep v1.0 NDIS

Note: NDIS drivers are verified by Microsoft, ODI drivers by Novell. Third party software that works with NDIS or ODI drivers should work with Intel adapters even if Intel has not verified it.

## Compatibility with Other Software Applications

Following is a list of software applications which have been tested and verified compatible on a network with the EtherExpress PRO/10 Adapter.

MS DOS 3.x, 4.x, 5.x, 6.x	Quattro PRO 5.0
PC DOS 3.x, 4.x, 5.x, 6.x	Paradox 4.5
DR DOS 5.0, 6.0	CC:Mail
Novell DOS 7.0	Winfax PRO
MS Windows 3.11	Lotus 1-2-3 4.0
MS Windows for Workgroups 3.11	AMI PRO 3.01
MS Word 6.0	MS Encarta
MS Excel 5.0	MS Musical Instruments
MS Powerpoint 4.0	Novell Encyclopedia
MS Mail	Myst
MS Project	World of Animals
Wordperfect 6.0	

## Intel Network Products

The Intel EtherExpress product line includes a selection of LAN adapters that deliver total compatibility with the IEEE 802.3 Ethernet standard. In addition, Intel develops and markets a broad range of network printing and fax products, network utilities and network management solutions. For more information on the EtherExpress PRO/10 Adapter or other Intel products, please contact Intel or your reseller.