

The IBM Adapter Family

The IBM Adapter Family provides exceptional performance, a rich set of features and functions and outstanding value in a variety of offerings to meet all your networking needs. IBM Ethernet adapters give you industry-leading performance combined with Wake on LAN™ capability. Performance is enhanced even further when you operate these adapters in full-duplex mode. IBM Token-Ring adapters give you industry-leading performance combined with low CPU utilization and low DOS memory requirements. Performance is enhanced even further when you operate these adapters in DTR (full-duplex) mode. The ATM Adapters provide solutions for a range of applications, if you're building a network, requiring high speed and bandwidth. IBM offers a host of high-speed communication products. For business or home users, access to company networks, Internet, as well as voice and fax messages is simple with IBM's communication products. The 7858 modem provides flexible operations in both synchronous and asynchronous mode, over switched and leased telecommunications lines.

Adapter products at a glance

Product	Bus Architecture	Data and address width	Interrupt levels	Network topology	Features
EtherJet PC Card (10BASE-T)	PCMCIA	16-bit	3-7, 9-12, 14,15	10BASE-T	<ul style="list-style-type: none"> • Plug and Play capability • Full-duplex capability
EtherJet PC Card Combo (10BASE-T and 10BASE2)	PCMCIA	16-bit	3-7, 9-12, 14, 15	10BASE-T, 10BASE2	<ul style="list-style-type: none"> • Offers combo media-access module for connection to 10BASE-T and 10BASE2 networks • Full-duplex capability • Plug and Play capability
10/100 EtherJet CardBus Adapter	CardBus	32-bit	3-15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Auto-negotiation • Full-duplex capability • Plug and Play support • Low power consumption
10/100 EtherJet CardBus Adapter with 56K Modem	CardBus	32-bit	3-15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Auto-negotiation • Full-duplex capability • Plug and Play support • Flash-upgradable to the V.90 56K standard • Low power consumption
10/100 EtherJet PCI Adapter	PCI	32-bit	3-5, 9-10, 11,15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Full-duplex capability • Auto-negotiation • Plug and Play support • ACPI support • Support adapter fault tolerant for use in mission-critical applications • Offers enhanced VLSI technology and device drivers
10/100 EtherJet PCI Adapter with Wake on LAN	PCI	32-bit	3-5, 9-10, 11,15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Wake on LAN capability • Auto-negotiation • Plug and Play support • Full-duplex capability • ACPI support • Adapter fault tolerance • Offers enhanced VLSI technology and device drivers

Adapter products at a glance (continued)

Product	Bus Architecture	Data and address width	Interrupt levels	Network topology	Features
Netfinity® 10/100 Fault Tolerant Adapter	PCI	32-bit	3-5, 9-10, 11,15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Full-duplex capability • Auto-negotiation • Plug and Play support • Adapter fault tolerance • PCI HotPlug • DMI 2.0, SNMP-manageable
Netfinity 10/100 Ethernet Adapter	PCI	32-bit	3-5, 9-10, 11,15	10BASE-T, 100BASE-TX	<ul style="list-style-type: none"> • Full-duplex capability • Auto-negotiation • Plug and Play support • Adapter fault tolerance • PCI HotPlug • DMI 2.0, SNMP-manageable • Adaptive load balancing
Netfinity Gigabit Ethernet SX Adapter	PCI	32/64-bit	3-5, 9-10, 11,15	100BASE-SX	<ul style="list-style-type: none"> • Full-duplex capability • Auto-negotiation • Plug and Play support • Adapter fault tolerance • PCI HotPlug • DMI 2.0, SNMP-manageable

Product	Auto-sensing	Redundant NIC	Fault-tolerant	Features
High-Speed 100/16/4 Token-Ring PCI Adapter	100, 16, and 4 Mbps	Yes	Yes	<ul style="list-style-type: none"> • Auto-speed adjust • Full-duplex enabled • Remote Program Load • Wake on LAN • PC 98, PC 99 • Support for STP and UTP cabling
16/4 Token-Ring PCI Adapter 2	16 and 4 Mbps	Yes	Yes	<ul style="list-style-type: none"> • Auto-speed adjust • Full-duplex enabled • Remote Program Load • PC 98, PC 99
16/4 Token-Ring PCI Adapter 2 with Wake on LAN	16 and 4 Mbps	Yes	Yes	<ul style="list-style-type: none"> • Auto-speed adjust • Full-duplex enabled • Remote Program Load • Wake on LAN • Alert on LAN • PC 98, PC 99

Product	Bus architecture	Data width	System interface	Features
Turbo 16/4 Token-Ring ISA	ISA	16	Shared RAM	<ul style="list-style-type: none"> • Plug and Play capability • Supports eight interrupt levels • Supports 768 I/O address choices • Auto-media and auto-speed select • Auto-speed detect • LANAIID • Remote Program Load

Adapter products at a glance (continued)

Product	Bus architecture	Data width	System interface	Features
Auto Wake Token-Ring ISA	ISA	16	Shared RAM	<ul style="list-style-type: none"> • Wake on LAN • Plug and Play capability • FDX enabled • Auto-media and auto-speed select • Auto-speed detect • LANAID • Remote Program Load

Product	Bus architecture	Network interface	Features
Turbo 16/4 Token-Ring PC Card	PCMCIA Type II or III	Shared RAM	<ul style="list-style-type: none"> • RJ-45 cable option • FDX and DTR enabled • LANAID • Auto ring-speed detect • Auto ring-speed adjust • Expanded and variable I/O port addressing

Product	Drivers	Protocols enabled	Features
Turboways® 25 ATM PCI Adapter	<ul style="list-style-type: none"> • PC DOS 6.3 or higher • MS-DOS 6.2 or higher • Windows® 3.1 or Windows NT® 3.4/4.0, Windows 95 	<ul style="list-style-type: none"> • NetBIOS, SNA, IPX and TCP/IP through LANE • TCP/IP through Classical IP 	<ul style="list-style-type: none"> • Low-cost client adapter • Supports up to 32 full-duplex virtual circuits
Interphase 155-Mpbs 5515 PCI Adapter	Available at: www.networking.ibm.com	NetBIOS, SNA, IPX and TCP/IP	<ul style="list-style-type: none"> • Forum compliant LANE • Classical IP • UTP (category 5) wiring with RJ-45 connector (UTP5)

Product	Features
ISA WaveRunner	<ul style="list-style-type: none"> • Digital communication of data at up to 128 Kbps over ISDN lines • Digital communication of data to equipment connected to the digital network over a 56-Kbps or 64-Kbps clear channel • Analog communications over ISDN to adapters and fax machines on conventional telephone networks
7845 ISDN NT Extended	<ul style="list-style-type: none"> • Provides enough bandwidth to handle computing-intensive applications like multimedia, Web graphics and videoconferencing • Interoperates with other ISDN devices using commonly available communications packages while retaining the ability to continue operating with existing analog adapter or fax destinations

Product	Error control	Data compression	Maximum throughput	Features
ISDN International PC Card Modem with GSM Capability	ITU-T V.42, MNP 2-4	ITU-T V.42bis, MNP Class 5	115.2 Kbps	<ul style="list-style-type: none"> • K56Flex protocol download capability • Digital cellular capability for selected models of cellular phones • V.34 data and V.17 fax standard support • Flash upgradable to V.90 56K ITU-T standard

Adapter products at a glance (continued)

Product	Error control	Data compression	Maximum throughput	Features
International PC Card Modem with GSM Capability	ITU-T V.42, MNP 2-4, MNP 10	ITU-T V.42bis, MNP Class 5	115.2 Kbps	<ul style="list-style-type: none"> • K56Flex protocol download capability • Digital cellular capability for selected models of cellular phones • V.34 data and V.17 fax standard support • Flash upgradeable to V.90 56K ITU-T standard

Product	Maximum data/fax speeds	Synchronous communication	Error control	Data compression	Features
56K Internet Modem Kit (56K download)	336/14.4 Kbps	N/A	V.42, MNP 2-4	V.42bis, MNP5	<ul style="list-style-type: none"> • Windows 95 Plug and Play • DSVD (Digital Simultaneous Voice-over-Data) • Caller ID • V.80 video conferencing support
ISA 56K/33.6 Kbps Data/Fax Modem	336/14.4 Kbps (56K download)	N/A	V.42, MNP 2-4	V.42bis, MNP5	<ul style="list-style-type: none"> • Windows 95 Plug and Play • Flash memory
External V.34 Modem	336/14.4 Kbps	V.25 bis SDLC/HDLC	V.42	V.42bis, MNP5	<ul style="list-style-type: none"> • Caller ID • Flash memory
PCMCIA 33.6 Kbps International Data/Fax Modem	33.6 Kbps	N/A	MNP (4) 2-4, UTI-T V.42, MNP 10 Adverse channel	MNP 5, ITU-TV, V.42bis	<ul style="list-style-type: none"> • Automatic sleep mode • Ring wake-up • Power-down • Software-enabled • DAA 16550 UART emulation enhancement
56K PC Card Modem/Cellular Capable	336/14.4 Kbps (56K download)	N/A	ITU-T V.42, MNP 2-4	V.42bis, MNP 5	<ul style="list-style-type: none"> • IBM Internet Connection offer Caller ID • V.80 video conferencing support • Digital line guard • Firmware enhanceable • Cellular capability • XJACK connector • Smart battery saver
56K PC Card Modem Kit	336/14.4 Kbps (56K download)	N/A	ITU-T V.42, MNP 2-4	V.42bis, MNP 5	<ul style="list-style-type: none"> • IBM Internet Connection offer Caller ID • V.80 video conferencing support • Digital line guard • Firmware enhanceable • XJACK connector • Smart battery saver

Adapter products at a glance (continued)

Product	Command sets	Asynchronous mode	Synchronous mode	Standards compliance
7858 Professional Modem	<ul style="list-style-type: none"> • Hayes Attention (AT) command set • ITU V.25bis asynchronous command set • ITU V.25bis synchronous command set • IBM's LPDA commands 	<ul style="list-style-type: none"> • AT command mode/ Hayes Autosynch • Asynchronous V.25bis command mode • Dumb mode 	<ul style="list-style-type: none"> • Asynchronous command mode and synchronous data mode • Synchronous command mode and synchronous data mode • Synchronous V.25bis command mode • LPDA-2 mode 	<ul style="list-style-type: none"> • Digital interface standards (ITU V.24, ITU V.28) • Modulation Mode standards (ITU V.21, ITU V.22, ITU V.22bis, ITU V.23, ITU V.32, ITU V.32bis and V.34)