

The IBM logo, consisting of the letters 'IBM' in a bold, sans-serif font with horizontal stripes through the letters.

Personal  
System/2  
Micro Channel

OEM Hardware  
Product Guide

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# IBM® PERSONAL SYSTEM/2® MICRO CHANNEL™ OEM HARDWARE PRODUCT GUIDE

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## INTRODUCTION

IBM® Personal System/2® Micro Channel™ OEM Hardware Product Guide presents information about products being commercially marketed by other developers that directly attach to the PS/2™ Micro Channel.

The material in this guide is based on information provided to IBM by authorized representatives of each of the development organizations referenced. Each developer has certified that it is marketing or intends to market the listed product(s) that directly attach to the IBM PS/2 Micro Channel.

There may be other developers whose products are not included in this guide. The procedure to apply for inclusion in future versions of this guide is located on page 55.

IBM has not evaluated the listed products and makes no comments or judgements about their functions, quality, performance, etc. Users should contact the developer directly to verify product function, prerequisites, price, and availability and suitability for the user's purposes.

There are three major sections of this guide:

- **PRODUCTS BY CATEGORY**

This section lists the name of the developer, the product name and product description as provided by the developer under a heading that best categorizes the product.

- **DEVELOPER DIRECTORY**

This section alphabetically lists every contributing developer, includes the company mailing address, phone number for obtaining product information, and pages on which products appear.

- **INDEX**

The index provides an alphabetical list of all the products presented in this guide with reference to the pages on which their product information appears.

IBM DOES NOT RECOMMEND OR ENDORSE THE LISTED NON-IBM PRODUCTS. WITH RESPECT TO THE LISTED PRODUCTS OR THE COMPLETENESS OR ACCURACY OF THIS DIRECTORY, IBM MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ANY AGREEMENTS OR WARRANTIES TAKE PLACE DIRECTLY BETWEEN THE DEVELOPER AND PROSPECTIVE USERS.



# PRODUCTS BY CATEGORY

DEVELOPER	PRODUCT	DESCRIPTION
<b>16-BIT MEMORY PRODUCTS</b>		
Advanced Microcomputer Systems, Inc.	MEGAMEM	Memory expansion option card, has the capability of providing an additional 2MB or 8MB of memory for your system.
Anvil Designs Pty. Ltd.	Jumbuck	Fast zero wait state memory with additional serial port(s). Available as a 1 or 2MB card with one extra serial port or a 2 or 4MB card with two extra serial ports.
AST® Research, Inc.	Rampage®/2-286	Memory board for the Models 50 and 60. Provides from 512KB to 2MB of expanded or extended memory (or both). Supports EMS 3.2, EEMS 3.2 and EMS 4.0 and can also be configured to be identical to the "IBM 80286 Memory Expansion Option" board.
Boca Research, Inc.	BocaRAM 50/60	4MB extended memory board for use with IBM PS/2™ Models 50 and 60.
CMS Enhancements, Inc.	MC 8000	CMS Memory Expansion Board performs as a drop-in replacement for IBM 80286 Memory Expansion Board, in addition to having expandability to 8MB for either extended 1M-16M and EMS.
Diamond Flower Electric Instrument Co., (U.S.A.) Inc. (DFI)	RAMBANK-II	4MB memory expansion. Extended and/or EMS memory. With print spooler software.
EVEREX SYSTEMS, Inc.	RAM II 2000™	2MB extended/expanded memory board for IBM PS/2™ Model 50 & 60 systems. Supports EMS 4.0.
	RAM II 4000™	4MB extended/expanded memory board for IBM PS/2™ Model 50 & 60 systems. Supports EMS 4.0.
IDEAssociates™, Inc.	IDEAmax/MC™	Up to 12MB of extended memory for the PS/2™. Provides up to 8MB of EMS memory compatible with LIM spec.
Intel® Corporation	Above™ Board 2	Includes EMS 4.0 support and full OS/2™ compatibility, as well as RAM disk, print buffer and installation software.

# PRODUCTS BY CATEGORY

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## DEVELOPER

## PRODUCT

## DESCRIPTION

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### 16-BIT MEMORY PRODUCTS (CONTINUED)

Quadram Corporation	QuadMEG PS/Q	Memory enhancement board providing up to 4MB of memory for Model 50/60 users. Supports both extended and expanded memory (LIM 4.0). Comes with print spooler and RAM disk utility software.
STB Systems, Inc.	RapidRAM 2	2MB memory adapter which supports backfill, extended and EMS 4.0 expanded memory, OS/2™ compatible with high speed 0 wait state operation.
Tecmar, Inc.	MicroRAM 50/60	A memory expansion board with 2MB of RAM that uses the IBM FEFE address; supports LIM EMS 4.0, DOS 3.3 and OS/2™; takes one Micro Channel™ slot.

### 32-BIT MEMORY PRODUCT

Tecmar, Inc.	MicroRAM M80	A memory/multifunction board with up to 8MB of memory, optional serial and parallel ports, OS/2™ support, LIM EMS 4.0 support, DOS 3.3 support. Takes one 32-bit Micro Channel™ slot.
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### MODEM PRODUCTS

Acer Technologies Corp.	Acer Modem 2424/MC	Add-on modem card which transmits data at 300, 1200 and 2400 bps data rate with MNP™ class 4 for error correcting.
Advanced Microcomputer Systems, Inc.	XPRESS 12	1200 baud internal modem. Asynchronous and synchronous - V.22 bis.
	XPRESS 24	2400 baud internal modem.
Anchor Automation, Inc.	Anchor 2400 PS	Internal modem for MCA.
Barr Systems, Inc.	BARR/6BBB	Synchronous modem adapter to support high speed RJE.
CMS Enhancements, Inc.	MC 2400	2400 baud Hayes® compatible modem. Internal. Supports all eight internationally recognized protocols. Switchable to 1200 or 300 baud. Auto-answer.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>MODEM PRODUCTS (CONTINUED)</b>		
Cumulus Corporation	CuModem 2400™	Internal 2400 baud Hayes®-compatible modem. Very high degree of Hayes compatibility. ProComm™ Software included.
EVEREX SYSTEMS, Inc.	Evercom II 24™	2400 bps internal asynchronous Hayes® Smartmodem compatible; Bell & CCITT compatible at 300, 1200, 2400 bps; Bitcom software included V3.5.
GammaLink	GammaComm 9600MC	9600 bps dial-up modem for PS/2™ to PS/2, PS/2 to mini, PS/2 to mainframe, and PS/2 to fax communications.
	GammaFax MC	Computer to Group III facsimile communications package.
Hayes® Microcomputer Products, Inc.	Smartmodem 2400P™	An internal board modem for the IBM PS/2™ Models 50, 60 and 80 that supports both asynchronous and synchronous data transmission.
Hycom, Inc.	HC-4811	An internal full duplex Hayes® compatible modem card which implements the industry standard V.22 bis, V.22A/B, Bell 212 A and Bell 103A protocols. Also included is a 4800 full duplex Async operation.
MicroGate® Corporation	SyncLink® 24/2	Modem that combines a multi-protocol communications controller and a synchronous Bell 201 B/C-compatible 2400 bps modem with auto-dial, auto-answer capability on a single printed circuit card.
	SyncLink® 48/2	Modem that combines a multi-protocol communications controller and a synchronous Bell 208/201-compatible 4800/2400 bps modem with auto-dial, auto-answer capability on a single printed circuit card.



# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>MODEM PRODUCTS (CONTINUED)</b>		
MicroGate® Corporation	SyncLink® 96/2	Modem that combines a multi-protocol communications controller and a synchronous CCITT V.32-compatible 9600 bps modem with auto-dial, auto-answer capability on a single printed circuit card.
MultiTech® Systems, Inc.	MultiModem 224 ES™ [Model #MT224ES]	2400/1200/300 bps modem card for PS/2™. Includes ProComm™ communications software. Provides MNP™ class 3 & 4 error correction and class 5 data compression.
	MultiModem 224 PS™ [Model #MT224PS]	2400/1200/300 bps modem card for PS/2™. Includes ProComm™ communications software.
Telenetics Corporation	TC921P	9600, 2400, 1200, 300 bps internal modem. Can be a 1200 or 2400 and field upgradeable to 9600 bps. Compatibility: V.29, V.32 bis, V.22, Bell 212, Bell 103.
U.S. Robotics, Inc.	Courier 2400/PS™	2400/1200/300 bps, auto-dial, auto-answer asynchronous modem on Micro Channel™ expansion card. Available with or without MNP™ error control and data-compression protocols (class 1-5), and with or without HyperACCESS™ data comm. software.
<b>NETWORK PRODUCTS</b>		
Acer Technologies Corp.	Acer 5270/MC (Ethernet® Card)	Ethernet® add-on card for PS/2™ 50, 60, 80. Transmitting data at 10Mbps through thick or thin cable with Acer Ethernet driver included.
Alloy Computer Products, Inc.	PC-SLAVE/16N	Add in PC-on-a-card. Provides functionality of PC when connected to terminal. Connects to Micro Channel™ via HI/2 interface.
	PLUS 4/PS	Network subsystem for 4 users. Includes 4 user processor cards. Network software and interface card to Micro Channel™ — (HI-2).

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>NETWORK PRODUCTS (CONTINUED)</b>		
Alloy Computer Products, Inc.	SLAVE/286	Add-in PC AT®-on-a-card provides functionality of PC AT when connected to terminal. Connects to Micro Channel™ via HI/2 interface.
	XBUS4/PS	Expansion chassis for 4 user processors, including host interface card (HI-2).
AST® Research, Inc.	AST®-5250/ Gateway A	AST® 5250/local Gateway A & AST-5250 Remote Gateway A complete S/3X communications solutions for local and remote AST. IBM Netbios compatible local area networks using PC or PS/2™ in master or stand alone modes.
C:LAN Technologies Inc.™	C:LAN™ Local Area Network	Intelligent local area network providing PC to PC communications, electronic mail services, on line chat and a non-dedicated file server.
Corvus Systems, Inc.	OMNINET/1 MC Transporter Card	Network interface card operating at 1 M bps on single twisted-pair cable. Topology is based on logical bus with CSMA/CA with positive acknowledge.
Digital Communications Associates, Inc.®	IRMALAN DFT Gateway™	Enables PC's on a local area network to communicate with an IBM mainframe via a port on a controller (configured for DFT). As many as 5 sessions can be run on the LAN at one time.
DNA Networks, Incorporated	DNA Networks	Local area network for microcomputers supporting all IBM and compatible microcomputer and MS-DOS and PC-DOS based equipment and software. Developed in 1983, the product has evolved to a custom built version of Zilog's Super Z8 communication processor.
Gateway Communications, Inc.	G/Ethernet® Local Area Network	Micro Channel™ implementation of Gateway's IEEE 802.3 Ethernet® LAN which runs on Novell®'s NetWare® to support IBM PS/2™ and compatibles.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>NETWORK PRODUCTS (CONTINUED)</b>		
IDEAssociates™, Inc.	IDEAcomm 5250/Remote Gateway™	Emulation hardware and software to link remote PS/2™ systems on an IBM Token Ring or NetBIOS compatible network to the IBM System 34/36/38.
	IDEAcomm 5251/Gateway™	Emulation hardware and software to link PS/2™ systems on an IBM Token Ring or NetBIOS compatible network to an IBM System 34/36/38.
Invisible Software, Inc.	Invisible Network Model 200/A	A simple and elegant local area network running at 1.8MBps on twisted pair wire. Available for PS/2™, PC XT™ and PC AT®. Comes complete with hardware, cable, network operating system, netBIOS, utilities and diagnostics.
LANMASTER™ DIVISION, Vestra-Subco, Inc.	ARCMaster/2™	High-performance network interface card that works in either of two modes: with generic ARCNET® drivers in the Input/Output Mode, or with enhanced ARCNET drivers in the Memory Mapped Mode. Both modes are token-passing.
Localnet Communications, Inc.	D-Link (DE-001/2) D-Link (DN-001/2)	10Mbps Ethernet® interface card. 1Mbps network interface card.
MICOM®-Interlan, Inc.	NI9210	Ethernet® data-link controller board. Product provides network interface to Ethernet networks.
Micro-Integration	MICRO-GCP/5250	Hardware/software combination that allows your PC to function as a gateway into NetBIOS compatible local area network.
NetWorth, Inc.	vLAN +	Twisted pair local area network that operates on existing spare telephone cabling. Supports up to 64 users and is available with all versions of Novell®'s NetWare® operating system.
	vNET	High performance single twisted pair local area network. Supports up to 128 users and has throughput comparable to Token-Ring. Operator or spare telephone cabling and is available with Novell®'s NetWare®.

# PRODUCTS BY CATEGORY

DEVELOPER	PRODUCT	DESCRIPTION
<b>NETWORK PRODUCTS (CONTINUED)</b>		
Novell®, Inc.	NetWare® 286 for the PS/2™ - Keycard	Electronic printed circuit board that permits access to Novell®'s local area network operating system designed for compatibility with IBM's PS/2™ products and the Micro Channel™.
PC-OFFICE, INCORPORATED	NETBOARD MC II	Single chip hardware design provides for low cost high speed twisted pair LAN adapter using a proprietary differential trinary modulation. Also a new CSMA/CD method.
Proteon®, Inc.	p1800 ProNET®-10	Connects the PS/2™ to the high performance, 10 Megabit/Second ProNET®-10 Token Ring Network. Uses a 16-bit Micro Channel™ Data Path and the POS feature for high speed and versatility.
Racore Computer Products, Inc.	LANpac II/MC	Local area network interface card for high performance 16MB/second LANs. Operates under Novell®'s NetWare®. High efficiency, inexpensive price/performance characteristics.
Standard Microsystems Corporation	ARCNET®-PS110 Network Controller Board	The ARCNET®-PS110, a surface mount technology board developed jointly by SMC® and Novell®, is fully compatible with all existing ARCNET networks and with Novell's NetWare®.
Tangent Technologies, Ltd.	PC Mac Bridge ATB/MCA	AppleTalk card, 230K and 768K bps, complete AppleTalk protocol stack, network drivers and PostScript printing utilities.
Thomas-Conrad Corporation™	ARC-CARD/MC™	16-bit interface adapter for the ARCNET® local area network.
Tiac Systems Inc.	LANJET MC-386	ARCNET® network interface card for PS/2™.
Tiara Computer Systems, Inc.	Tiara Lancard™ A-II	ARCNET® local area network adapter.
	Tiara Lancard™ E-II	Ethernet® local area network adapter.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## NETWORK PRODUCTS (CONTINUED)

Yamatech Scientific Limited	Super ARCOM® ARCNET® LAN Controller	High performance token passing ARCNET® LAN controller using standard 93 Ohm RG62A/U coaxial cable. Features 2.5MB/sec. trans. rates, up to 20MHz bus speeds, diagnostic lights in rear, fiber optics or twister pair media options, network OS compatible.
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## HOST COMMUNICATION PRODUCTS

Advanced Microcomputer Systems, Inc.	MPCC 1	The MPCC handles asynchronous format, synchronous byte oriented protocols such as IBM Bisync as well as synchronous bit oriented protocols such as HDLC and IBM SDLC.
Alloy Computer Products, Inc.	Mainline	Micro to mainframe communications to IBM mainframes.
AST® Research, Inc.	AST®-3270/COAXII/ A-CUT	Coax 3270 connection to mainframe with IBM & IRMA compatibility. Supports one 3270 session and includes file transfer.
	AST®-3270/COAX II/A-DFT	Coax 3270 connection to mainframe with IBM & IRMA compatibility. Supports multiple 3270 display/printers sessions and includes file transfer.
	AST® 3270/Coax II/A-G	Coax 3270 connection to mainframe with IBM & IRMA compatibility. Supports graphic terminal emulation and includes file transfer.
	AST®-SNA/A	Function as a stand alone SNA/3270.
CLEO® Software	PC-3780®PlusSHM/2	Software and communications interface card that implements 2780 and 3780 protocols on the PS/2™. Features autodialing, job files, log files, and user selectable configurations.
	PC2-3276/12SHM/2	Software and interface card provides remote SNA connectivity with 6 sessions, "hot key", API, autodialing with selected modems, etc.

# PRODUCTS BY CATEGORY

DEVELOPER	PRODUCT	DESCRIPTION
<b>HOST COMMUNICATION PRODUCTS (CONTINUED)</b>		
CLEO® Software	PCLAN-3270BSC SHM/2	This software and interface card provides a 32 user gateway for a NetBIOS Local Area Network. Features 3274, 3278, 3279, and 3287 support; "hot key"; file transfer; API.
	Synchronous Asynchronous Interface Card	Multifunction communications card includes powerful 8530 serial chip capable of HDLC, SDLC, BSC, and asynchronous protocols.
Datacopy Corporation	MicroFax	Provides facsimile and data modem communication.
Frontier Technologies Corporation	AdCom2-I	Intelligent communication controller with onboard 80188 CPU, 6 different protocols, and 6 different interfaces.
Intelligent Technologies™ International Corporation	Bisync Exchange 3270/II™	Includes Exchange Series™ interface card and communications software. Enables PS/2™, PC, PC XT™ or PC AT® to emulate an IBM 3274/6 Cluster Controller and an IBM 3278/9 Display Terminal. User manual included.
	Gateway Exchange/II™	Enables one or more IBM PS/2™ system to function as a server emulating IBM 3274/6 Cluster Controller for other workstations attached to a NetBIOS compatible LAN. Workstations emulate IBM 3278/9 displays and 3287 printers. Interface card and SW.
	Modem Exchange/II™	Enables a PS/2™ to emulate a 3270 device or 3777-1 RJE workstation. Features an integrated 4800 bps Bell compatible 208 A/B synchronous modem, and can be installed in any 16-bit slot. Includes interface card, commo SW and user manual.
	SNA Exchange/II™	SNA Exchange™ communication system includes interface card, communications SW and user manual. Enables an IBM PS/2™, PC, PC XT™ or PC AT® to emulate an IBM 3274 Cluster Controller, an IBM 3278/9 Display Terminal, or an IBM 3777-1 RJE Wksta.

# PRODUCTS BY CATEGORY

DEVELOPER	PRODUCT	DESCRIPTION
<b>HOST COMMUNICATION PRODUCTS (CONTINUED)</b>		
International Computer Consultants, Inc. (ICCI)	ICCI-M1000/C	Airline Link Control (ALC), PC-based clustered ALC system hardware and software. /C = Cluster Station - ALCNet™.
	ICCI-M1000/DLC	Airline Link Control (ALC), PC-based clustered ALC system hardware and software. /DLC = Downline Cluster, polled downline support.
	ICCI-M1000/M	Airline Link Control (ALC), PC-based clustered ALC system hardware and software. /M = Master ALC/SABRE Host Gateway and ALCNet™.
	ICCI-M1000/MC	Airline Link Control (ALC), PC-based clustered ALC system hardware and software. /MC = Master Cluster = Master host gateway, hot standby unit.
	ICCI-M1000/SIA	Airline Link Control (ALC), PC-based clustered ALC system hardware and software. /SIA = Secondary Interchange Address - Dual host access.
Micro-Integration	BIS-3780	A hardware/software combination that allows full-function IBM 280/3780 emulation for a variety of 8 and 16-bit PCs. Allows a PC to communicate over point-to-point telephone lines with any CPU. Also suited for Remote Job Entry.
	MICRO-DFT/3270	A hardware/software combination that allows your PC to emulate a 3270 DFT connected to an IBM 3174 or 3274 Control Unit. By connecting to a 3X70 Control Unit as a DFT, your PC can connect up to 5 3270 simultaneous sessions with the mainframe.
	MICRO-SNA/3770	A hardware/software combination that offers IBM 3770 terminal emulation for PCs. Designed for Remote Job Entry in SNA networks. Allows PC to communicate with IBM S/327, 30XX or 43XX systems.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## HOST COMMUNICATION PRODUCTS (CONTINUED)

MicroGate® Corporation	SyncLink® Multi-Protocol Communications Card	SCC/2 is a multi-protocol communications controller. Typical applications of the SCC include controlling external synchronous modems and interfacing PS/2™ systems directly to a 37X5 communications processor.
Pathway Design, Inc.	pcPATH/MC SNA-3770	3770 hardware and software RJE emulator allows IBM PS/2™ to connect to mainframe over SNA network.

## TERMINAL EMULATION PRODUCTS

ADEM U.S., INC.	MICROSYNC	Fully compatible superset of the Unisys™ Micro/IT™ and PW2-500™ synchronous communication adapter ports. Allows PS/2™ users to utilize a wide range of office communication and terminal emulation products which operate on the PC's listed abv.
AST® Research, Inc.	AST®-3780/A	3780, 2870 terminal emulation.
	AST®-5250/Cluster A	Complete hardware/software solution for local or remote cluster controller emulation, using the IBM PS/2™ Model 50/60/80 and up to four PS/2, PC or VT-100 terminals attached.
	AST®-5251/11A	Complete hardware/software package which allows direct twinax connection of your PS/2™ Models 50/60/80 to your IBM System 34/36/38. Offers up to 5 host sessions.
	AST®-5251/12A	Complete hardware/software package which offers total solutions for remote PS/2™ Models 50/60/80 communications with an IBM 34/36/38 computer.
Chi Corporation	Chi Communications Adapter	Supports a variety of synchronous and asynchronous communications protocols for terminal emulation of IBM, Sperry, Burroughs, Honeywell and Digital terminals.



# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## TERMINAL EMULATION PRODUCTS (CONTINUED)

Computer Logics Limited	HANDSHAKE/PLUS	Terminal emulation for Unisys™/BURROUGHS host. Emulates MT, TD and ET type terminal devices; includes both advanced and CANDE file transfer, API and context sensitive help.
	Personal Emulator Package (PEP)	Terminal emulation for Unisys™/SPERRY mainframes. Emulates UTS 400,20,40,60 devices; includes concurrent DOS, concurrent DEC VT100, API emulation and file transfer in TIP and DEMAND modes. A SITA (1024C) version also available.
Digital Communications Associates, Inc.®	IRMA 2™/E78 PLUS™	Provides 3278/79 terminal emulation with support for Mod 2 through Mod 5. File transfer programs, keyboard macros and remapping capabilities are included.
	IRMA 2™ / E78 PLUS™ for OS/2™	Provides 3278/79 terminal emulation with support for Mod 2 through Mod 5. File transfer software for OS/2™ is included.
	IRMAX Multisessions™	Provides a multisessioned workstation with windowing capabilities similar to the IBM 3270 PC. Supports 4 host sessions, a PC DOS application, and 2 notepads. File transfer is included with the product.
IDEAssociates™, Inc.	IDEAcomm 3270/SNA™	Provides interactive remote communications from a PS/2™ to a mainframe in an SNA environment. Supports up to 8 sessions. Provides terminal and printer emulation.
	IDEAcomm 3278™	Emulation hardware and software for coax connection of the PS/2™ to the IBM mainframe.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## TERMINAL EMULATION PRODUCTS (CONTINUED)

IDEAssociates™, Inc.	IDEAcomm 3278/DFT™	Hardware and software for PS/2™ to mainframe communications with up to five sessions. Provides terminal and printer emulation.
	IDEAcomm 5250/Remote™	Emulation hardware and software for remote communications from a PS/2™ to an IBM System 34/36/38 via a synchronous modem.
	IDEAcomm 5250/Remote Share™	Resource sharing package to link up to four remote PS/2™ systems to an IBM System 34/36/38.
	IDEAcomm 5251™	Emulation hardware and software for local twinax connection from a PS/2™ to the IBM System 34/36/38.
	IDEAcomm 5251/Plus™	Emulation hardware and software for local twinax connection from a PS/2™ to an IBM System 34/36/38. Features seven concurrent sessions.
	IDEAcomm 5251/Share™	Resource sharing package to link up to four PS/2™ systems to an IBM System 34/36/38.
Intelligent Technologies™ International Corporation	Bisync Exchange 3780/II™	The Exchange 3780 communication system enables an IBM PS/2™, PC, PC XT™, PC AT®, RT PC™ or compatible to emulate an IBM 3780 or 2780 RJE workstation. Includes Exchange Series™ interface card, communications SW and user manual.
Micro-Integration	BIS-3270	A hardware/software combination that offers a fully functional IBM 3270 terminal emulator that allow PCs to communicate in bisynchronous protocol with IBM or IBM plug-compatible mainframes.
	BIS-7705	Hardware/software combination that provides full function Honeywell VIP 7700/7705 emulation for the IBM PC.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## TERMINAL EMULATION PRODUCTS (CONTINUED)

Micro-Integration	COAXSYS	A hardware/software combination that allows PCs to emulate IBM 3278 or 3279 display stations via existing coax cable networks. COAXSYS is compatible with DCA's IRMA adapter.
	MICRO-CCP/5250	Hardware/software combination that allows a PC to emulate a 5250 cluster controller attached via SDLC to a System 3X. CCP/PCA system can process the same information as if it were a real cluster controller.
	MICRO-SNA/3270	A hardware/software combination that allows full featured IBM 3270 terminal emulation so that your PCs can communicate using bit synchronous SDLC/SNA protocol, with IBM or plug-compatible mainframes.
	MICRO-SNA/5250	A hardware/software combination that gives desktop PCs the capabilities of an IBM 5251 Model 12 remote terminal or 5294 cluster controller for System 3X.
	TWINAXIS	A hardware/software combination designed to allow PCs to interface to IBM System 34/36/38 computers via twinax cable connections so that PC can emulate an IBM 5250 serial terminal as the last station on the cable.
Pathway Design, Inc.	pcPATH/MC SNA-3270	3278/79 terminal emulation hardware and software that allows IBM PS/2™ to connect to mainframe over SNA network.

## SERIAL PORT PRODUCTS

Advanced Microcomputer Systems, Inc.	AMS 211	Multi I/O port, with 2 serial and 1 parallel ports.
Anvil Designs Pty. Ltd.	Stallion	Highly intelligent serial I/O subsystem with on board processor relieves the host of all character handling and processing producing dramatic improvements in a multi-user environment.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## SERIAL PORT PRODUCTS (CONTINUED)

AST® Research, Inc.	I/O Pak/2	Offers either dual serial (-2S) or serial/parallel (-SP) ports. The boards are daughter boards and attach to either the Advantage®/2 or Advantage®/2-286 products.
Computone Systems Incorporated	Intelliport PS8	Intelligent multiple port board with 8 RS232 ports. The board utilizes an Intel® 80186 microprocessor on board to minimize performance degradation as additional terminals are added to the main fileserver.
CONTROL CORPORATION, A Control Systems Company	HOSTESS 550/MC 4 Port	A buffered multiport serial board that adds 4 serial ports using one expansion slot. Increases system performance by helping the processor to work more efficiently. Lower cost than intelligent boards.
	HOSTESS 550/MC 8 Port	A buffered multiport serial board which adds 8 serial ports using one expansion slot. Increases system performance by helping the processor to work more efficiently. Lower cost than intelligent boards.
	HOSTESS/MC 4 Port	A multiport serial board which adds 4 serial ports using one expansion slot. Used for basic applications—like a small multiuser system or a low cost, low end network to share information and peripherals.
	HOSTESS/MC 8 Port	A multiport serial board which adds 8 serial ports using one expansion slot. Used for basic applications—like a small multiuser system or a low cost, low end network to share information and peripherals.
Control Systems	(See CONTROL CORP., A Control Systems Company)	

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>SERIAL PORT PRODUCTS (CONTINUED)</b>		
Cumulus Corporation	CuSP™	Two serial ports and one parallel port on one Micro Channel™ adapter board.
DigiBoard, Inc.	OpenEnder™ w-I/O-Mate™ 4	Intelligent multi-channel communications board with 4 asynchronous ports, 256K of RAM, up to 64K of ROM and a 12mHz 80186 microprocessor. Drivers included.
	OpenEnder™ w-I/O-Mate™ 4 +	Intelligent multi-channel communications board with 4 asynchronous, one synchronous channel, 256K of RAM, up to 64K of ROM, and a 12mHz 80186 microprocessor. Drivers included.
	OpenEnder™ w-I/O-Mate™ 8	Intelligent multi-channel communications board with 8 asynchronous ports, 256K of RAM, up to 64K of ROM and a 12mHz 80186 microprocessor. Drivers included.
	OpenEnder™ w-I/O-Mate™ 8 +	Intelligent multi-channel communications board with 8 asynchronous, one synchronous channel, 256K of RAM, up to 64K of ROM, and a 12mHz 80186 microprocessor. Drivers included.
	PS-COM/16	Standard multi-channel communications board with 16 asynchronous ports.
	PS-COM/4	Standard multi-channel communications board with 4 asynchronous ports. Drivers included.
	PS-COM/8	Standard multi-channel communications board with 8 asynchronous ports. Drivers included.
HK AMMTEK AMERICA, INC.	SMSP (Smart Multi-user Serial Ports)	Distributed processing intelligent serial communication cards for a multi-user environment.
IDEAssociates™, Inc.	IDEAmini™	I/O short card for the IBM PS/2™. Includes two serial ports.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## SERIAL PORT PRODUCTS (CONTINUED)

Opto 22	AC32	A dual channel asynchronous communications adapter for RS422/485 communications at rates up to 38.4K baud and distances up to 5000 feet.
	AC34	A single channel industrial RS422/485 asynchronous adapter for RS422/485 communications at rates up to 38.4K baud and distances up to 5000 feet. (Optical/transformer isolation)
Qua Tech, Inc.	DS-1000	A two channel asynchronous RS-232 communication card. Each channel is individually programmable and is address and interrupt selectable.
	DS-2000	A two channel asynchronous RS-422 add-on communication board. Each channel is individually programmable from 50 baud to 256K baud and is address and interrupt selectable.
Quadram Corporation	QuadPort PS/Q	2 serial port enhancement board. Includes QuadMaster IV, version 1.21.
Sritek, Inc.	12-PAK	Intelligent 12 channel serial communication board. Programmable channel baud rates up to 33.4K. Supports modem communications. Multiple boards per PS/2™.

## PARALLEL PORT PRODUCTS

Opto 22	AC33	A parallel port which sources a PAMUX Bus for up to 512 points of digital and/or analog I/O at distances up to 500 feet.
Qua Tech, Inc.	MXI-1000	A standard IEEE-488 GPIB controller card which can be connected to 14 devices. The card may be configured as a controller or a system controller. The MXI-1000 utilizes the TMS9914 Controller.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## PARALLEL PORT PRODUCTS (CONTINUED)

Qua Tech, Inc.	PXB-7200	An advanced digital I/O board that provides 72 input/output TTL signals. The base address of the PXB-7200 is keyboard selectable and interrupts are available for background operation.
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## SCSI PRODUCTS

Advanced Storage Concepts, Inc.	ASC-PS2	SCSI PS/2™ Micro Channel™ host adapter.
Future Domain Corporation	MCS-350 SCSI Host Adapter	2MB/second transfer rate, high performance SCSI host adapter with INT13 BIOS. Supports fixed disk, tape, optical disk, CD ROM, and printer from a single slot. Full program option select; full SCSI implementation.
IOMEGA® Corporation	PC4 Adapter for the IBM® Micro Channel™	SCSI to Micro Channel™ adapter for IOMEGA® line of 8" & 5-1/4" Bernoulli Box® products.
Lark Associates, Inc.	SCSI Host Adapter	Single plug-in board which allows ANSI standard Small Computer System Interface (SCSI) devices to be attached to the Micro Channel™.
Mountain® Computer, Inc.	SCSI Adapter Card	Micro Channel™ to SCSI (Small Computer System Interface) adapter expansion card. Full SCSI 17B emulation. On board ROM and EPROM for customization.
Scientific Micro Systems, Inc. (SMS), OMTI™ Products Division	OMTI™ 5086 SCSI Bus Interface Chip	In a host adapter application, the 5086 device can be used as a SCSI port with the 5095 device as the PS/2™ Micro Channel™ interface.
	OMTI™ 5095 IBM® PS/2™ INTERFACE CHIP	The OMTI™ 5095 serves as an interface device into the IBM PS/2™ Micro Channel™ bus architecture in a disk controller interface or a SCSI host adapter with a 5086 device.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## DISKETTE DRIVE PRODUCTS

Cumulus Corporation	Stepping Stone™ 5.25/1.2	External 1.2MB floppy disk add-on for PS/2™. Does not require using adapter slot. Fits all PS/2 Models. Can operate with two 3.5" drives using optional adapter.
	Stepping Stone™ 5.25/1.2 I	Internal 1.2MB floppy disk add-on for PS/2™ models 60 and 80. Does not require using adapter slot. Can operate with two 3.5" drives using optional adapter.
	Stepping Stone™ 5.25/360	External 360KB floppy disk add-on for PS/2™. Does not require using adapter slot. Fits all PS/2 Models. Can operate with two 3.5" drives using optional adapter.
	Stepping Stone™ 5.25/360 I	Internal 360KB floppy disk add-on for PS/2™ Models 60 and 80. Does not require using adapter slot. Can operate with two 3.5" drives using optional adapter.

## FIXED DISK PRODUCTS

Core International	ATplus 43MB External Disk Drive	43MB 26ms external disk drive. Core software included with drive.
	ATplus 43MB Internal Disk Drive	43MB 26ms internal disk drive for PS/2™ Model 60-041. Core software included with drive.
	ATplus 72MB Internal Disk Drive	72MB 26ms internal disk drive for PS/2™ Models 60 and 80. Core software included with drive.
	HC Series 150MB Disk Drive	150MB 16ms full height disk drive for PS/2™ Models 60 and 80. Core software included with drive.
	HC Series 310MB Disk Drive	310MB 18ms full height disk drive for PS/2™ Models 60 and 80. Core software included with drive.
	HC Series 90 MB Disk Drive	90MB half height disk drive. Core software included with drive.



# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>FIXED DISK PRODUCTS (CONTINUED)</b>		
IOMEGA® Corporation	Bernoulli Box II™ - B120iu - MC	5-1/4" HH 20 MB removable Bernoulli™ disk cartridge slave drive. Second drive for B120i-MC/PC4 includes drive, cables, hardware & manuals.
	Bernoulli Drive II™ - B120i - MC/PC4™	5-1/4" HH 20MB removable Bernoulli™ disk cartridge drive. Master drive includes PC4 adapter, bezel, cables, software and manuals.
Storage Dimensions	SpeedStor Model PS-100 Sub-System	100MB internal disk drive for Model 50; 25msec avg seek time. Connects to Model 50 via Micro Channel™/SCSI Host Bus Adapter (included). Includes SpeedStor/2 large partition software.
	SpeedStor Model PS-140 Subsystem	140MB internal disk drive for Models 60 & 80; 28msec avg. seek time. Drive is full height, 5-1/4", ESDI interface. Includes SpeedStor/2 large partition software.
	SpeedStor Model PS-155E External Subsystem	155MB external disk drive for Models 50, 60 & 80. 17msec avg. seek time. Connects to PS/2™ unit via Micro Channel™/SCSI Host Bus Adapter (included). Includes SpeedStor/2 large partition software.
	SpeedStor Model PS-300 Subsystem	300MB external disk drive for Models 60 & 80. 18msec avg. seek time. Drive is full height, 5-1/4", ESDI interface. Includes SpeedStor/2 large partition software.
	SpeedStor Model PS-320E External Subsystem	320MB external disk drive for Models 50, 60 & 80. 28msec avg. seek time. Connects to PS/2™ unit via Micro Channel™/SCSI Host Bus Adapter (included). Includes SpeedStor/2 large partition software.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## OPTICAL DISK PRODUCTS

Storage Dimensions	LaserStor™ Model PS-800 Optical Disk System	800MB internal optical disk drive & controller for Models 60 & 80. Double-sided cartridge (400MB/side). Connects to PS/2™ via SCSI host bus adapter. Includes LaserCache™ software utilities.
	LaserStor™ Model PS800E Optical Disk System	800MB external optical disk drive & controller for Models 50, 60 & 80. Uses double sided WORM media (400MB/side). Connects to PS/2™ via SCSI host bus adapter. Includes LaserCache™ software utilities.

## TAPE DRIVE PRODUCTS

Archive Corporation	Archive VP 150e	150MB streaming tape system. 6.75MB/min. transfer rate. Uses DC600XTD cartridge. Externally mounted.
	Archive VP 150i	150MB streaming tape system. 6.75MB/min transfer rate. Uses DC600XTD cartridge. Internally mounted.
	Archive VP 60e	60MB tape backup system. 5MB/min transfer rate. Uses DC600A cartridge. External mount.
	Archive VP 60i	60MB tape backup system. 5MB/min transfer rate. Uses DC600A cartridge. Internally mounted.
	Archive XL, Model 3550	40MB tape backup system for Model 50. Uses floppy controller and DC2000 mini-cartridge. Internally mounted.
	Archive XL, Model 3560	40MB tape backup system for Models 60 and 80. Uses floppy controller and DC2000 mini-cartridge. Internally mounted.
CMS Enhancements, Inc.	T160 EXT/II	Micro Channel™ compatible SCSI tape subsystem. Back up under and file by file. Will back up standard IBM MFM and ESDI hard disks.

# PRODUCTS BY CATEGORY

DEVELOPER	PRODUCT	DESCRIPTION
<b>TAPE DRIVE PRODUCTS (CONTINUED)</b>		
Emerald Systems Corp.	DOS 150 - 13007	150MB cassette tape backup; works with DOS and IBM PC Net and Token Ring.
	DOS 150 - 9007	150MB tape backup; uses Emerald Systems' ASP™ tape backup software; works with stand-alone DOS and IBM PC Net and Token Ring.
	DOS 60 - 13007	60MB cassette tape backup; works with DOS and IBM PC Net and Token Ring.
	VAST Device™ Model UAS 2G-9000	250MB to 2.2GB tape backup for high capacity/multi-server Token Ring installations. Also works with TRN installations running Advanced NetWare®.
EVEREX SYSTEMS, Inc.	Excel II 125™	125MB external cartridge tape backup subsystem for IBM PS/2™ Models 50 and 60. Tape software is included.
	Excel II 60™	60MB external cartridge tape backup subsystem for IBM PS/2™ Models 50 and 60. Tape software is included.
	Excel II 60T™	60MB external cassette tape backup subsystem for IBM PS/2™ Models 50 and 60. Tape software is included.
	QIC-02 Micro Channel™ Adapter Card	Adapter for users who want to back up PC XT™, PC AT® or PS/2™ Model 50 and 60 systems.
INNOVATIVE DATA TECHNOLOGY	FAME (Fast Access Media Exchange) Tape Coupler	1/2", 9-track tape controller card that allows users to write/read industry-standard mag tapes. Includes tape drive & controller, cables, DOS 3.3 and OS/2™ drivers, diagnostics and application utilities & complete documentation.
Mountain® Computer, Inc.	150MB Series 7000™ External Tape Back Up	150MB external tape back up with power supply. Light weight "zero footprint" design. High performance — up to 5.4MB/minute backup. Uses D600XTD cartridge. Includes Filesafe™ Tape Software V4.42.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## TAPE DRIVE PRODUCTS (CONTINUED)

Mountain® Computer, Inc.	300MB Internal Filesafe™ Tape Backup	300MB 5.25" full height internal tape backup. Uses DC600XTD cartridges. QIC-150 format. Up to 5.4MB per minute backup. PC Net and Token Ring compatible. Includes Filesafe™ Tape Software V4.42.
	300MB Series 7000 External Tape Backup	300 MB external tape backup with power supply. QIC-150 format. Uses DC600XTD cartridge. Up to 5.4MB/minute backup. Can connect a second unit for 600 MB capacity. Includes Filesafe™ Tape Software V4.42.
	60MB Series 7000™ External Tape Backup	60MB external tape backup with power supply. Light weight "zerofoot" design. High performance — up to 5.4MB/minute backup. Uses DC600 Cartridge QIC-24 format. Includes Filesafe™ tape software V4.42.
	Filesafe™ 150MB Internal Tape Backup	150MB 5.25" half high internal tape backup. High performance, up to 5.4MB/minute. Uses DC600XTD cartridge. QIC-150 format. IBM PC Net and Token Ring Compatible.
	Filesafe™ 60MB Internal Tape Backup	60MB 5.25" half high tape backup. High performance up to 5.4MB/minute backup. Uses DC600 cartridge. QIC-24 format. IBM PC Net and Token Ring compatible. Includes Filesafe™ Tape Software V4.42.
	Micro Mountain™ External Tape Backup	40MB external tape backup. Floppy controller based, light weight and highly transportable. Uses DC2000 data cartridge and conforms to QIC-40 standard. Includes Filesafe™ Tape Software V4.42.
	Mini Mountain™ 150 External Tape Backup	150MB external tape backup. Light weight, portable, high performance — up to 5.4MB/minute backup. Uses D600XTD cartridge QIC-150 format. IBM PC Net and Token Ring compatible. Includes Filesafe™ Tape Software V4.42.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>TAPE DRIVE PRODUCTS (CONTINUED)</b>		
Mountain® Computer, Inc.	Mini Mountain™ 60MB External Tape Backup	60MB external tape backup. Light weight, portable, high performance — up to 5.4MB/minute backup. Uses D600 cartridge. QIC-24 format. IBM PC Net and Token Ring compatible. Includes Filesafe™ Tape Software V4.42.
	Series 4000™ External Tape Backup	External 40MB tape backup with power supply. Floppy disk controller based. Uses DC2000 data cartridge and conforms to the QIC-40 Standard. Includes Filesafe™ Tape Software V4.42.
	TD 4000™ Internal Tape Backup	40MB “floppy based” tape backup. 3.5” internal formfactor, QIC-40 cartridge format based on DC2000 data cartridge. Includes Mountain® “Advanced Tape Software”.
Tecmar, Inc.	QT 125e	An external 125MB tape backup. Tape software included. Will read tapes created on the QT 60e and QT 90e with Techmar software.
	QT 60e	An external 60MB tape backup with tape software complete with disk and tape utilities. Easy to use. One slot installation.
	QT 90e	An external 90MB tape backup complete with tape software. Will read tapes created on the QT 60e using Techmar software.
<b>CO-PROCESSOR PRODUCTS</b>		
Eicon Technology Corporation	Single Port Communications Co-Processor	An intelligent communications card featuring the Micro Chanel™ architecture.
Ten X Technology, Inc.	X-PORTER/2	A full-slot PC board with software that installs into a PS/2™ system to create a TI multi-user DX10 system. Supports 3 terminals—2 dumb terminals connected to IBM serial adapter ports, the other the PC console. Two memory options: 512KB or 1MB.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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**CO-PROCESSOR PRODUCTS (CONTINUED)**

TLA Research, Inc.	BriteCard	High performance floating-point co-processor based on the AT&T DSP32 floating point signal processing chip using TLA Research supplied drivers and interfaces.
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**DEBUG TOOLS**

Advanced Microcomputer Systems, Inc.	EXTEND 16	The Micro Channel™ Extender board extends the bus a few inches above the motherboard to allow access of components on Micro Channel compatible cards.
	EXTEND 32	The Micro Channel™ Extender board extends the bus a few inches above the motherboard to allow access of components on Micro Channel compatible cards.
	PROTO 16	Prototype card for new product development. 16-bit data bus with video connection.
	PROTO 16 IO	16-bit prototype card featuring power and ground traces, capability of installing noise reducing capacitors, wire-wrap IC sockets and discrete components.
	PROTO 32	Prototype card for new product development. 32-bit data bus.
	PROTO 32 IO	32-bit prototype card featuring power and ground traces, capability of installing noise reducing capacitors, wire-wrap sockets and discrete components.
On Target Associates	Extender Card for 16 Bit	Features custom connector providing a vertical extension of the PS/2™ bus. Each signal line labeled on both sides to ensure ease of use during development & troubleshooting. Reduce wear in manufacturing test & repair stations. Low signal cross talk guaranteed.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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**DEBUG TOOLS (CONTINUED)**

On Target Associates	Extender Card for 32 Bit	Features custom connector providing a vertical extension of the PS/2™ bus. Each signal line labeled on both sides to ensure ease of use during dvlprmt & troubleshooting. Reduce wear in mfgng test & repair stations. Low signal cross talk guaranteed.
	Std. Height 16 Bit Wire Wrap Card	Prototype card with technical documentation including pgmable opt. select HW examples & adapter descrip. file SW examples, 4 layer construc., bus signal labels, pre-defined areas for IC pkgs with decoupling capacitor sites plus much more.
	Std. Height 32 Bit Wire Wrap Card	Prototype card with technical documentation including pgmable opt. select HW examples & adapter descrip. file SW examples, 4 layer construc., bus signal labels, pre-defined areas for IC pkgs with decoupling capacitor sites plus much more.
	Ten Slot 16 Bit Burn-in Board	Provides mfgns of PS/2™ compatible adapter cards a safe method for testing their adapters without damage to computers. Opt. modules & SW provide full testing of video adapters & exercise 8 & 16 bit adapter function with easy user defined SW in C.
	Triple Height 16 Bit Wire Wrap Card	Prototype card with technical documentation including pgmable opt. select HW examples & adapter descrip. file SW examples, 4 layer construc., bus signal labels, pre-defined areas for IC pkgs with decoupling capacitor sites plus much more.
	Triple Height 32 Bit Wire Wrap Card	Prototype card with technical documentation including pgmable opt. select HW examples & adapter descrip. file SW examples, 4 layer construc., bus signal labels, pre-defined areas for IC pkgs with decoupling capacitor sites plus much more.

Tiara Computer Systems, Inc.    Tiara Lancard™ EX-II    Extender card.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## PERFORMANCE PRODUCT

CSSL, Inc.	Awesome I/O Card™	Improves hard disk performance, reduces access time to 3ms or less, improves data transfer rate, increases storage capacity by 50%, and provides advanced error correction.
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## GRAPHICS PRODUCTS

Data Translation®, Inc.	DT2953 Frame Grabber	Frame grabber board captures images in real time (1/30 second) from video cameras or VCRs, processes images and displays them.
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Digital Communications Associates, Inc.®	IRMA 3279 Graphics™	Provides all the functionality of an IBM 3279 S3G color terminal. The software allows storing and printing host graphics on a PC, supports all six 3279 P.S. symbol sets, and includes file transfer.
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	IRMAX APA Graphics™	Transforms a PC into a high resolution mainframe APA color graphics workstation, Mod 2 through Mod 4. File transfer software is included in the package.
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GalaGraph Ltd.	Mercury/2	High resolution graphics controller with 256 colors, 1 byte display memory, software selectable resolution of 1024x768 or 800x600 and a non-interlaced flicker-free display format. Supports VGA.
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Matrox Electronic Systems Ltd.	PC2-QV4	Quad alphanumeric display controller generates two/four independent displays. Ticker line, panning, scrolling capabilities on-board.
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	PG2-1281	TMS34010 based graphics processor. Three custom gate arrays enable the PG2-1281 to attain speeds of up to 12 million pixels/second and 100,000 vectors/second. Displays 256 colors from 16.7 million at a resolution of 1280x1024.
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# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>GRAPHICS PRODUCTS (CONTINUED)</b>		
MICRO DISPLAY SYSTEMS, INC.	THE GENIUS MC™	15-inch monochrome full-page display compatible with IBM PS/2™ series. High resolution (736x1008) and 100 DPI.
Microfield Graphics, Inc.	T8/2 Color Graphics Controller	Supports 4- & 8-bit pixels from 1024x768 through 1280x1024. Utilizes CMOS bit-slice processor, ASIC pixel manipulation processor, and 100ns interger multiplier. VGA compatible single-screen op., high-speed draw, display list & window-oriented graphics supported.
Moniterm Corp.	Viking 1 Hi Res 19" Color Monitor	Hi-res color monitor and controller to display 1024x768x8 at 60Hz. Controller has on-board co-processor with drivers for Windows™, Windows 2.0, GEM, GSS, AutoCAD® and 6 more CAD packages.
	Viking 1 Hi Res 19" Monochrome Monitor	Monitor and controller to display 1280 x 960 pixels at 66Hz. Controller has on-board co-processor with drivers for Windows™, Windows 2.0, GEM, GSS, 1-2-3™, AutoCAD® and 8 more CAD packages.
MULTISIGNAL TECHNOLOGY CORPORATION	Image Acquisition and Graphics Controller	Dual function board to frame grab video signal in real-time with resolution of 512x512x8 and to perform graphical functions using the TMS 34010. Software driver included.
Vermont Microsystems, Inc.	CAD-1024	A 100,000 vector/second graphics product with 1024x768 resolution and VGA pass through. The product comes with 16 or 256 simultaneous colors from a palette of 16.7 million.
	Page Manager 100 Graphics System - Model 212	A monochrome graphics product with 1024x1024 resolution or 1280x1024 resolution. The product employs an Intel® 82786 drawing engine.
	TIPS 2	A high performance graphics processor with 1024x768 resolution, VGA pass-through. The product contains a programmable TI 34010 Graphics Processor + displays 16 or 256 colors.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## PRINTER/SCANNER/PLOTTER PRODUCTS

Computer Language Research, Inc.	Formwriter® 10 Page Printing System	20 page/min. simplex laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pgs. Recommended for high volume, production runs & distrib. prntg of forms & docs. Prtr controller uses one slot.
	Formwriter® 10X Page Printing System	20 page/min. simplex laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pgs. Recommended for high volume production runs & distrib. prntg of forms and docs. Prtr controller uses one slot.
	Formwriter® 10XD Page Printing System	20 page/min. duplex laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pgs. Recommended for high volume, production runs & distrib. prntg of forms & docs. Prtr controller uses one slot.
	Formwriter® 2E Page Printing System	8 page/min. desktop laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pages. Recommended for low volume production runs & proofing of forms & docs. Printer controller uses one slot.
	Formwriter® 2X Page Printing System	8 page/min. desktop laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pages. Recommended for low volume production runs & proofing of forms & docs. Printer controller uses one slot.
	Formwriter® 8 Page Printing System	15 page/min. desktop laser printer. Supports printing of electronic forms with or without application data. Prints letter or legal size pgs. Recommended for medium volume production runs & proofing of forms & docs. Printer controller uses one slot.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## PRINTERS/SCANNER/PLOTTER PRODUCTS (CONTINUED)

Datacopy Corporation	Model 115 Scanner Interface Card	Provides hardware interface to Datacopy's line of scanners.
LaserGo, Inc.	GoCard Laser Printer Controller	Performance enhancement for laser printers. Includes GoScript page description language and fonts.
Microtek Labs, Inc.	MS-300A Desktop Scanner	High resolution desktop image scanner capable of scanning either continuous tone pictures or lineart drawings.
	MS-300C Desktop Scanner	High resolution desktop image scanner capable of scanning either continuous tone pictures or lineart drawings.
	MSF-300C Desktop Scanner	High resolution desktop image scanner capable of scanning either continuous tone pictures or lineart drawings.
	MSF-300G Desktop Scanner	High resolution desktop image scanner capable of scanning up to 8 bits/pixel of gray level data.
	MSF-400G Desktop Scanner	High resolution desktop image scanner capable of scanning up to 8 bits/pixel of gray level data.

## MULTI-FUNCTION PRODUCTS

AST® Research, Inc.	Advantage®/2	A 16-bit memory board for the PS/2™ Models 50 and 60. Offers from 512KB to 8MB of linear memory and has optional I/O available on daughter boards which offer either dual serial or serial and parallel ports.
	Advantage®/2-386	32-bit memory board for the PS/2™ Model 80. Offers from 1MB to 8MB of linear memory and has optional I/O available on daughter boards which offer either dual serial or serial and parallel ports. Includes an EMS 4.0 expanded memory mgr. dev. driver.
Cumulus Corporation	CuRAM 50/60™	Model 50/60 memory: 2-8MB, supports extended, EMS, EEMS, EMS 4.0 protocols using 4 registers for transfer between tasks for maximum operation. Optional add-on modem or serial/parallel modules.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
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## MULTI-FUNCTION PRODUCTS (CONTINUED)

Cumulus Corporation	CuRAM 80™	Model 80 Memory: 2-8MB. Operates at maximum speed in all Model 80 systems. Optional add-on modem or serial/parallel modules.
IDEAssociates™, Inc.	IDEA Supermax/MC™	Up to 8MB of extended memory plus two serial ports for the IBM PS/2™. Provides up to 8MB of EMS memory compatible with the LIM specification.
Quadram Corporation	Quadboard PS/Q	Multifunction board providing 1 serial, 1 parallel port and up to 4MB of extended and expanded memory (LIM 4.0). Provides single board solution for any Model 50/60 user needing more memory and/or more I/O ports.
Tecmar, Inc.	MicroRAM	A memory/multifunction board with up to 8MB of memory, optional serial and parallel ports, OS/2™ support, LIM EMS 4.0 support, DOS 3.3 support. Takes one Micro Channel™ slot.

## OTHER PRODUCTS

Advanced Digital Corporation	Transformer 2	Converts the Micro Channel™ bus to PC AT® bus so you can use PC AT interface card with PS/2™ Models 8550, 8560 and 8580.
AMBER Software Corporation	AMBER	4GNL programming environment. Integrated tool for developing business software.
Audio Precision, Inc.	System One Audio Text System	Comprehensive audio test system for distortion noise, power, frequency response, gain, loss, crosstalk, phase, wow and flutter, linearity, and other audio measurements.
Capital Equipment Corp.	PS< >488	IEEE 488 controller for the PS/2™ Models 50, 60 and 80.
Chromalux Corporation	Chromalux AT	Large screen high resolution, high definition computer/video projectors. (1024 x 1280 pixels resolution, 15-42 kHz horizontal scan rate). Needs an external interface box for RGB.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>OTHER PRODUCTS (CONTINUED)</b>		
Chromalux Corporation	Chromalux HD	Large screen high resolution, high definition computer/video projectors. (1280 x 1600 pixels resolution, 15-78 kHz horizontal scan rate). Needs an external interface box for RGB.
Curtis, Inc.	ROMDISK	Solid state non-volatile diskette and disk drive emulators.
Data Translation®, Inc.	DT2901 Analog I/O Board	12-bit analog I/O board for data acquisition; up to 50KHz throughput; 16 channels input; 2 channels output.
IOtech, Inc.	Personal488/2	IEEE 488 interface and software. Allows IEEE 488 instruments to interface to PS/2™ computers.
Jones Futurex™, Inc.	ENC-506	Board level product which provies DES encryption and synchronous communications. Device is tamper resistant and designed to be upgradable to U.S. Treasury Certifiable ANSI X 9.9 message authentication.
KineticSystems Corporation	CAMAC Interface for IBM PS/2™ Model2928-Z1A	This card permits high speed data acquisition or process control systems to be configured with standardized CAMAC (IEEE-583) modules for A/D, D/A, digital, pulses, inputs/outputs.
National Instruments™	MC-GPIB™	Low cost, full-function, high performance IEEE-488 interface for PS/2™ systems. Standalone, plug-in circuit card can be installed in any MCA slot. Allows data transfer between PS/2 & up to 14 diff. IEEE-488 bus-compatible instruments.
Natural MicroSystems™ Corporation	Watson®	Automatic telephone answering, multi-user voice mail, 300-2400 baud Hayes® compatible modem, telemarketing, automatic telephone attendant.
	Watson® VBX™	Multi-line voice messaging and call processing system.

# PRODUCTS BY CATEGORY

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DEVELOPER	PRODUCT	DESCRIPTION
<b>OTHER PRODUCTS (CONTINUED)</b>		
Qua Tech, Inc.	SAC-1200	A 12-bit signal acquisition system card. The board consists of 16 signal-ended A/D inputs, one D/A channel, 3 digital input and 3 digital output lines.
Scientific Solutions, Inc.	MC-DAS 1612	Data acquisition. 16 channels of 12 bit A/D, 1 channel 12 bit D/A, 2 dig. input, 2 dig. output, 5-16 bit timer/counters, A/D thruput to 80KHz, menu and driver software.
	MC-DAS 1614	Data acquisition. 16 channels of 14 bit A/D, 1 channel 12 bit D/A, 2 dig. input, 2 dig. output, 5-16 bit timer/counters, A/D thruput to 40KHz, menu and driver software.
	MC-DAS 1616	Data acquisition. 16 channels of 16 bit A/D, 1 channel 12 bit D/A, 2 dig. input, 2 dig. output, 5-16 bit timer/counters, A/D thruput to 40KHz, menu and driver software.
	MC-IEEE 488	IEEE 488 interface implementing IEEE standard 488-1978, 1MB/Second transfer rate, includes 2 meter cable and menu driven software.
Winchester Data Products, Inc.	JS-3 Bar Code Scanner	Reads most popular bar codes. Can act as a special I/O port or "fool" system into thinking it is keyboard. Works with Ashton-Tate® dBase III™, Microrim® R:BASE®, Lotus™ 1-2-3™, etc.



# DEVELOPER DIRECTORY

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<b>COMPANY</b>	<b>PHONE</b>	<b>PAGES</b>
Acer Technologies Corp. 401 Charcot Avenue San Jose CA 95131	408-922-0333	4,6
ADEM U.S., INC. P.O. Box 28264 Kansas City MO 64118	816-452-0057	13
Advanced Digital Corporation 5432 Production Drive Huntington Beach CA 92649	714-891-4004	33
Advanced Microcomputer Systems, Inc. 2780 S.W. 14th Street Pompano Beach FL 33069	305-975-9515	3,4,10,16,27
Advanced Storage Concepts, Inc. 10855 Rockley Road Houston TX 77099	713-879-4090	20
Alloy Computer Products, Inc. 100 Pennsylvania Avenue Framingham MA 01701	617-875-6100	6,7,10
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AST Research, Inc. 2121 Alton Avenue Irvine CA 92714	714-863-1333	3,7,10,13,17,32
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Computer Language Research, Inc. 2395 Midway Road Carrollton TX 75006	800-367-6373	31
Computer Logics Limited 75 International Boulevard Rexdale Ontario M9W 6L9 CANADA	800-387-4811	14
Computone Systems Incorporated 5555 Oakbrook Parkway Norcross GA 30093	404-242-9143	17
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# REQUEST FOR IBM® PS/2™ MICRO CHANNEL™ HARDWARE PRODUCT CERTIFICATION

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My company has developed or is developing product(s) that directly attach to the PS/2 Micro Channel and would like to be included in the next version of the "IBM® PERSONAL SYSTEM/2® MICRO CHANNEL™ OEM HARDWARE PRODUCT GUIDE."

Therefore, please send me the necessary certification form and instructions.

NAME: \_\_\_\_\_  
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COMPANY: \_\_\_\_\_

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CITY/STATE/ZIP: \_\_\_\_\_

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Please complete, remove and submit to:

Ms. Mildred N. Sanderson  
PS/2 Product Planning  
IBM Corporation - 4616  
P.O. Box 1328  
Boca Raton, FL 33432-1328



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