

Number One Add-On Products
for **IBM PC**



AST
RESEARCH INC.

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Irvine, California 92714

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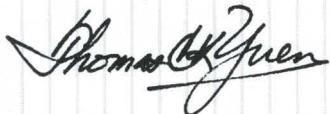
Dear IBM PC/XT User:

Thank you for considering AST Research's quality add-on products for your IBM PC enhancement needs.

AST Research is the leader in the design, manufacture and distribution of quality add-ons for the IBM PC, XT, and IBM PC compatibles. We distribute our products through 1,200 distributors and dealers worldwide. Sales have increased from just over \$2,000 for the month of December 1981 to more than \$3,000,000 for the month of October 1983. This phenomenal growth is attributable to our unsurpassed quality, product reliability and after-sales service. AST Research products are specified by Fortune 500 companies, major OEMs, universities, systems houses and small business organizations around the country, and around the world for IBM PC enhancement needs.

AST Research is committed to maintaining its high standards of quality, reliability and responsiveness to your needs. We value your continued confidence in us as your Number One IBM PC add-on manufacturer.

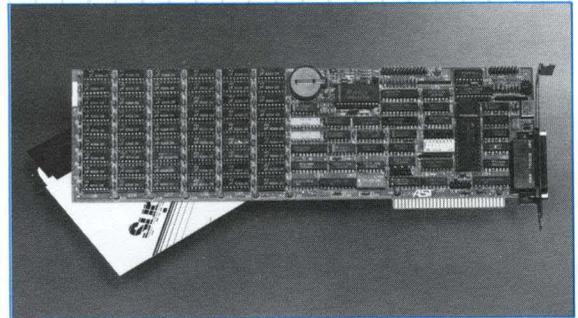
Yours truly,



Thomas C. K. Yuen
Vice President, Marketing

SixPakPlus™

*The Unique Six-Function
Enhancement Card For The IBM PC/XT*



SixPakPlus puts 64-384K-bytes of parity checked memory, 1 IBM compatible serial port, 1 IBM compatible printer port, 1 clock calendar, and 1 optional game adapter port on a single card. Along with the SuperPak Utility Diskette, it fully meets the needs of IBM PC users whether they have the original 64K system board, the 256K system board, or the PC XT.

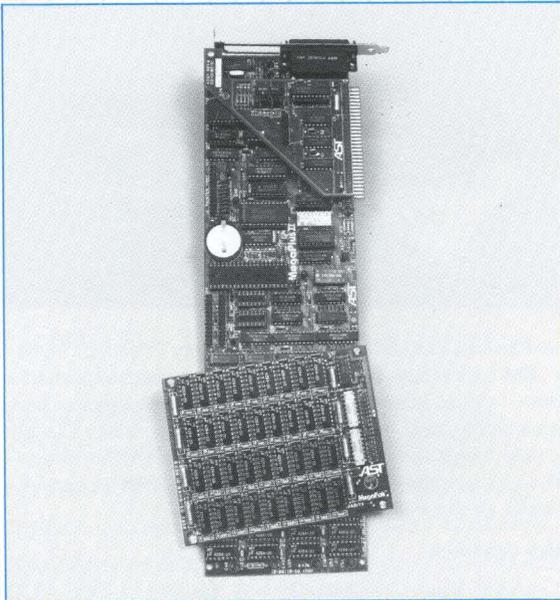
Key Features:

- 64-384K parity checked memory (Added to 256K on the system board, this results in 640K, the maximum addressable user memory as specified by IBM.)
- 1 IBM compatible serial (async) port
- 1 IBM compatible parallel printer port
- 1 IBM PC-DOS compatible clock calendar with battery backup
- 1 IBM compatible game adapter port for use with IBM-type joystick, optional
- SuperPak (includes SuperDrive and SuperSpool utility programs)
- Five-level testing including burn-in at 50° C
- 1-year warranty (2-year paid extended warranty available)
- Comprehensive User's Manual included
- Clock utility program

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MegaPlus II™

*The Ultimate Multifunction
Add-On Card For The IBM PC/XT*



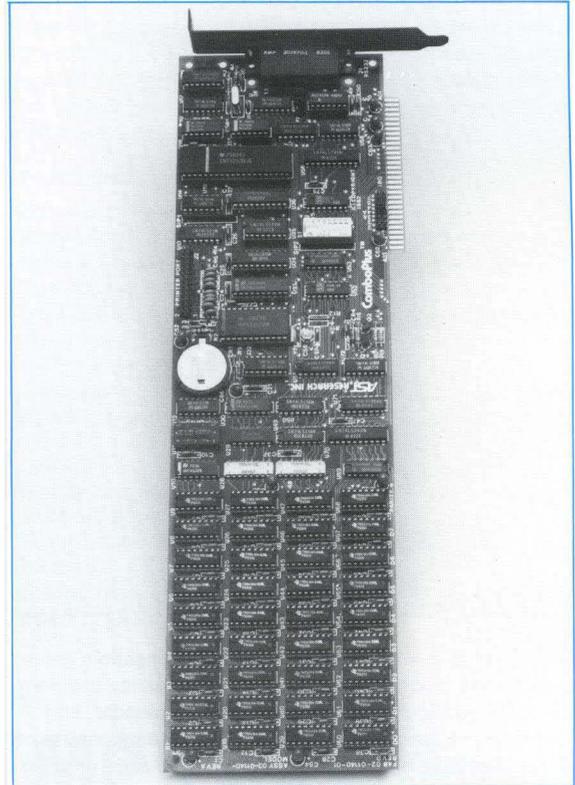
Expansion memory on the MegaPlus II can be upgraded or ordered with up to 512K-Bytes of parity checked memory. (The basic card expands to 256K, and MegaPak adds an additional 256K parity checked memory to the board.) The card offers a maximum of 2 IBM compatible serial ports, 1 IBM compatible printer port, and 1 clock calendar. An optional game port is now available.

Key Features:

- 64-512K parity checked memory
- Optional game port
- 2 IBM compatible serial (async) ports, 1 standard, 1 optional
- 1 IBM compatible parallel printer port (optional)
- 1 IBM PC-DOS compatible clock calendar with battery backup
- SuperPak (includes SuperDrive and SuperSpool utility programs)
- Clock utility program
- Five-level testing including burn-in at 50° C
- Four-layer construction for superior power distribution
- 1-year warranty (2-year paid extended warranty available)
- Comprehensive User's Manual included

ComboPlus™

*The Multifunction Enhancement Card
For The IBM PC/XT*



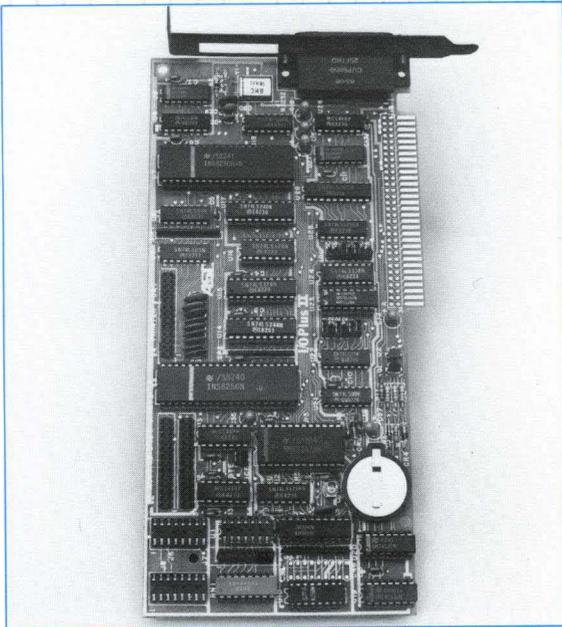
ComboPlus offers up to 256K-bytes of parity checked memory, 1 IBM compatible serial port, 1 IBM compatible printer port, and 1 clock calendar on a single card.

Key Features:

- 64-256K parity checked memory
- 1 IBM compatible serial (async) port
- 1 IBM compatible parallel printer port
- 1 IBM PC-DOS compatible clock calendar with battery backup
- SuperPak (includes SuperDrive and SuperSpool utility programs)
- Five-level testing including burn-in at 50° C
- Four-layer construction for superior power distribution
- 1-year warranty (2-year paid extended warranty available)
- Comprehensive User's Manual included
- Clock utility program

I/O Plus II™

*The Ultimate Expansion Card
For The IBM PC/XT*



The I/O Plus II is enhanced by an IBM compatible game control port, and by the SuperPak system utility program. Minimum configuration includes 1 clock calendar, and 1 serial port. Optional second serial port, game control port and printer port can be ordered factory installed or in field upgrade kits.

Key Features:

- 2 IBM compatible serial (async) ports, 1 standard, 1 optional
- 1 IBM compatible printer port, optional
- 1 IBM compatible game control port, optional
- 1 IBM PC-DOS compatible clock calendar with battery backup
- SuperPak (includes SuperDrive and SuperSpool utility programs)
- Five-level testing including burn-in at 50° C
- 1-year warranty (2-year paid extended warranty available)
- Comprehensive User's Manual included
- Clock utility program
- Four-layer construction for superior power distribution

SuperPak™

*The Utility Diskette That Increases
IBM PC And XT Throughput*

SuperPak includes SuperDrive and SuperSpool, the most powerful disk emulator and print spooler available, as well as the software to set and access the clock calendar. By emulating disk drive and printer access at RAM speeds rather than normal slower speeds of mechanical devices, they will greatly enhance your processing throughput.

Key Features:

- Simulation of up to four electronic disks
- Electronic disk can be logically inserted between existing physical disk drives
- User-defined program size and memory spaces
- User can restrict SuperDrive to specific memory areas
- Supports single or double sided electronic drives, 8 or 9 sectors per track
- SuperSpool provides buffered output of print data to either parallel or serial printer from 4K to maximum memory capacity
- User-defined spool buffer size and memory location
- Simple command sequence specifies printer ports as well as baud rates and line conditions
- Stop/restart, previous page, line per page controls can be invoked in memory
- Straight wire spool buffer does not modify print file data
- IBM PC-DOS 1.1, 2.0 compatible

MP Expansion™ Memory

Memory Enhancement For Your IBM PC/XT

The MP Expansion Memory provides you with up to 256K of parity checked memory on a single card.

Key Features:

- 64K-256K parity checked memory
- SuperPak (includes SuperDrive and SuperSpool utility programs)
- Full 1 megabyte addressing
- CPU-controlled refresh cycles
- State-of-the-art 64K DRAM
- Low power consumption
- Five-level testing including burn-in at 50° C
- Four-layer construction for superior power distribution
- Fully field upgradeable
- 1-year warranty (2-year paid extended warranty available)
- Comprehensive User's Manual included

Accessories

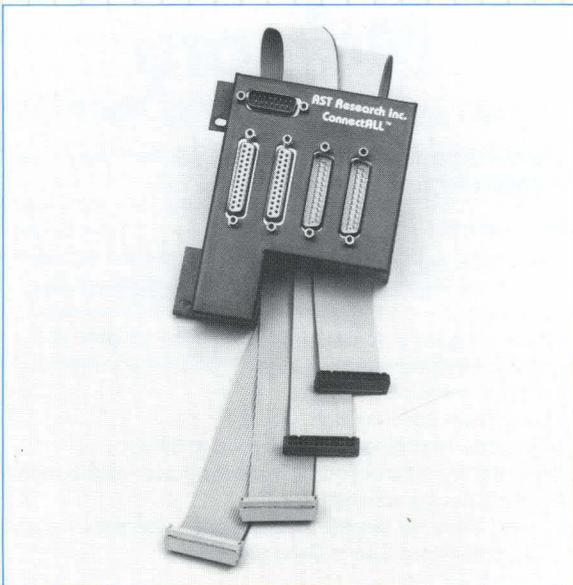
Wire Wrap Card And Extender

The W/W Series of hardware development cards consists of:

- W/W068 — Wire Wrap Card compatible with IBM PC
Size: 13.1" x 4.2"
Includes mounting bracket and card guide
- W/W069 — Extender Card for use with IBM PC option slots
Includes mounting brackets
- WW070 — Equivalent to W/W068 and W/W069

ConnectAll™

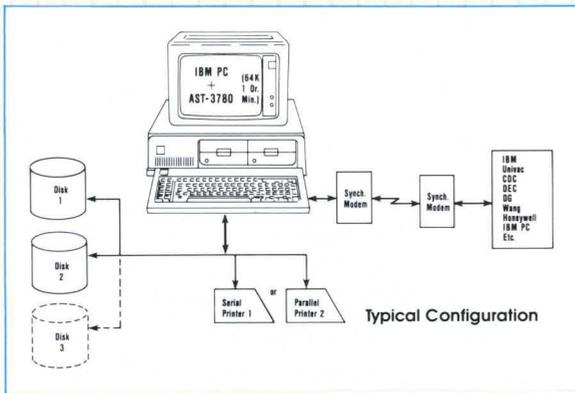
The AST Research ConnectAll is a specially designed connector mounting bracket to properly manage the various DB-25 connectors such as the printer port or serial port. A total of four DB-25 type and one game control connector can be properly secured to the IBM PC by using the ConnectAll. NOTE: ConnectAll not for use with IBM XT.



AST - Mainframe
Communications Products
For IBM PC

AST-3780™

Now Your IBM PC Can Emulate
A Powerful Remote Job Entry Station



AST-3780 is a complete hardware and software package that captures the full power of any computer supporting the bisync, point-to-point communications protocol. Easy to learn and easy to use, the AST-3780 lets you transfer program, data or text files between an IBM PC and a host computer system at up to 19.2K baud speeds.

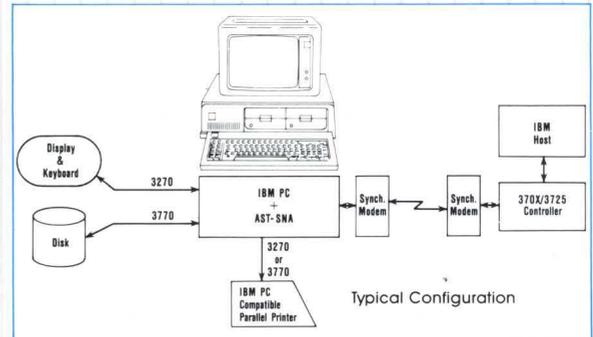
Key Features:

- Compatible with any host computer supporting IBM 2780 or 3780 bisync protocol (i.e. IBM 370, 43XX, System 34, DEC, Wang, etc.)
- Automatic error checking and correction
- Interactive operations menu-driven
- Command file can be created for unattended batch operations
- Completely plug-compatible with existing equipment
- Keyboard and screen can input and output with HASP, JES1, POWER or RES
- Variable message block size to 512 characters
- Data compression/decompression supported
- Performs all printer forms control functions



AST-SNA™

Your IBM PC Can Now Talk The New
Data Processing Standard - SNA

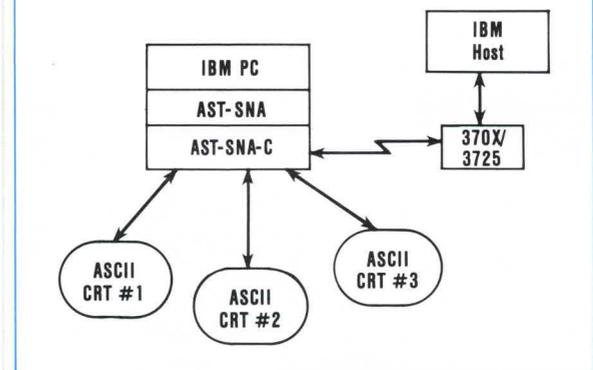


AST-SNA is a complete hardware and software package that utilizes the full capabilities of any IBM computer supporting SNA/SDLC communication protocol. Your IBM PC with AST-SNA provides all the facilities of an IBM 3270 or 3770 terminal with special Key Features.

Key Features:

- IBM 3270 SNA/SDLC Display Station Logical Unit (LU) 2 support
- IBM 3270 SNA/SDLC Printer, Logical Unit (LU) 1 and 3 support
- Optional IBM 3770 SNA/SDLC SCS communication, batch RJE
- Optional cluster controller with support for additional IBM PCs or ASCII terminals†

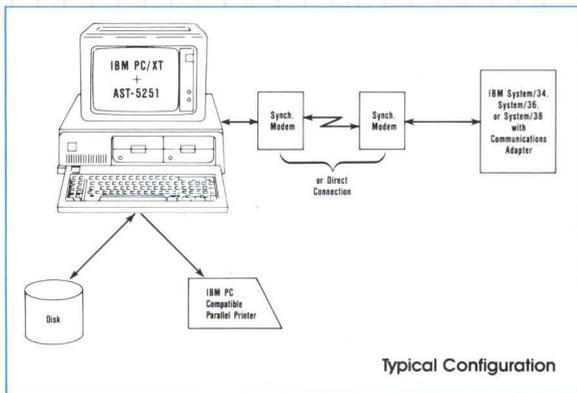
OPTIONAL ASCII-CRT CLUSTER CONFIGURATION (AVAILABLE SOON)



† IBM 3101 and DEC VT100 ASCII Terminals only.

AST-5251™

Now Your IBM PC Can Emulate A Powerful Interactive Remote Work Station



AST-5251 is a complete hardware and software package that connects your IBM PC to an IBM System/34, 36 or 38 computer for interactive communication under the IBM-supplied remote work station support for 5251 Model 12 Display Stations.

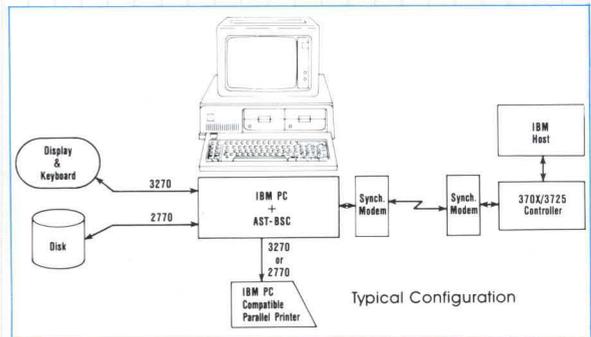
Key Features:

- Emulates IBM 5251 Model 12 Display Station
- Parallel printer emulates IBM 5256 Printer
- Connection to host with modem, or direct connection without additional external hardware
- Operates on switched, leased, point-to-point or multipoint lines
- Supports line speeds from 1200 bps to 9600 bps
- Provides interface for bidirectional file transfers between IBM PC and host system (with optional ETU-34, ETU-36, ETU-38 emulator transfer utility)
- Supports field and display attributes
- Automatic mode for operatorless sessions



AST-BSC™

Now Your IBM PC Can Talk The Long-Established Data Processing Standard-BSC



AST-BSC is a complete hardware and software package that utilizes the full capabilities of any IBM computer supporting the bisync communication protocol. Your IBM PC with AST-BSC provides all the facilities of an IBM 3270 or 2770 terminal with special Key Features.

Key Features:

- IBM 3274 Bisync Control Unit
- IBM 3278 Display Station Model 2 or 3279 Color Display Station Model 2A (with color monitor on the PC)
- IBM 3287 Printer
- Optional IBM 2770 communication RJE
- Optional cluster controller with support for additional IBM PCs or ASCII terminals†

† IBM 3101 and DEC VT100 ASCII terminals only.

CUT ALONG DOTTED LINE

MORE INFORMATION?

Send me more information on:

AST-3780

AST-BSC

AST-PCOX

AST-SNA

AST-5251

PCnet

CC-232

Name _____

Company _____

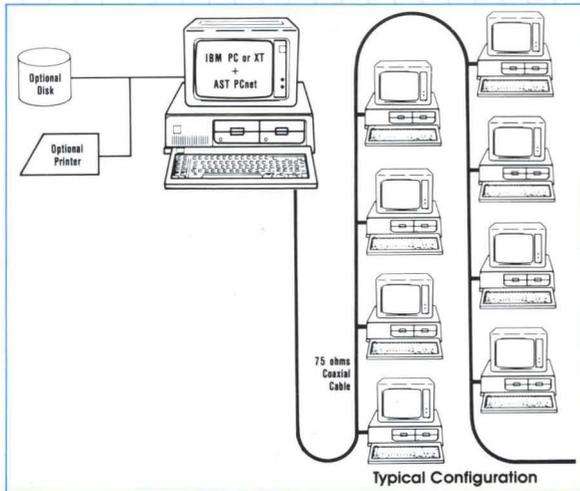
Address _____

City _____ State _____ Zip _____

Phone (____) _____

AST-PCnet™

The First Local Area Network Designed
Specifically For The IBM PC/XT

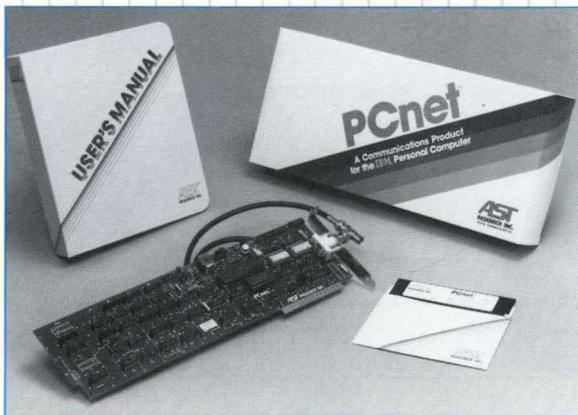


PCnet lets your IBM PC/XT talk to other IBM computers and gives you the ability to make use of file locking, multi-tasking, printer sharing, disk sharing, electronic mail. AST Research's array of mainframe computer products provide the necessary link from any mode of the network to mainframe computers.

Key Features:

- CSMA/CD, base-band Local Area Network
- Uses standard 75-ohm CATV coaxial cable
- Cabling to maximum 7000 feet
- Compatible with all existing and future IBM compatible hard disks and printers
- Transmits data at a rate of approximately 1 Mbps
- File locking

™PCnet is a trademark of Orchid Technology, Inc.



FUTURE PRODUCTS

AST has identified the mainframe communication, local area network and multifunction products as the area of our future product concentrations. In the coming months many exciting new products are planned for release to use with the IBM and IBM compatible PCs. Watch for our new product announcements and request information regarding facts, features, and description from your dealers.

PRODUCT AVAILABILITY

AST products are available at Computerland Stores, Entre' Computers, Businessland and many other stores world-wide. If your dealer does not have the particular AST product you specify, please call us and we will be happy to recommend other dealers in your area.

CORPORATE, OEM, UNIVERSITY, SYSTEM HOUSE INQUIRIES

A new AST OEM and Systems Marketing group has been set up to help the various organizations with their IBM PC enhancement needs. Please contact AST OEM and Systems Marketing group for further details.

WARRANTY

AST provides a 1 year warranty on all of their products. Additionally, a 2 year paid extended warranty is available. For detailed warranty coverage information, refer to your User's Manual and Warranty Registration Card.

COMPATIBILITY

AST's products are designed to be fully compatible with the IBM PC/XT and thus many of the IBM PC compatible PCs such as the Compaq, Corona, and Colby are capable of using our add-on cards for enhancement needs.