

# PHV-740E SBC

PHV-740E SBC HALF-SIZE PENTIUM SBC with FPNVGA & LAN



## DESCRIPTION

The MCSI PHV-740E PCISA Pentium All-In-One half size Single Board Computer (SBC) contains all the basic elements found in a standard PCISA compatible desktop computer system plus some unique features which make it ideally suited for industrial applications. The most outstanding features include: An optional 32MB PROMDISK-Chip™ Disk Emulator, a high performance multi-I/O controller, a PCI VGA/Flat panel controller, and a 10/100Mbps Ethernet Port. The VGA controller supports VGA, TFT, EL, CRT and flat panel displays simultaneously and contains 2MB of on-board video memory. The optional PROMDISK-Chip Disk Emulator comes complete with ROM-DOS version 6.22, making it ideal for embedded diskless applications. The super AT I/O includes dual 16C550 UARTs, one Enhanced IDE hard disk port, and an ECP/EPP/SPP compatible multi-mode bi-directional parallel port. The WatchDog timer and PROMDISK-Chip makes the board ideally suited for controlling critical processes where unattended operation is essential. The PHV-740E Pentium SBC was specifically designed to operate in extreme industrial environments, and has an operating temperature range of 0° to 60°C.

## FEATURES

- PCISA Compatible Computer
- Supports 75MHz to 233MHz Pentium, Up to 350MHz AMD K6 and Cyrix 6x86 Microprocessors
- DRAM Expandable to 128MB (2-72-pin SIMMs)
- Includes 512KB of Pipeline Burst Mode Cache
- Optional 32MB PROMDISK-Chip™ Disk Emulator
- AT Compatible Keyboard Port (not required for booting)
- Two 16C550 Compatible RS-232 Serial Ports
- PS/2 Compatible Bi-directional Parallel Port
- Dual Floppy Disk Port Supports up to Two 3.5" or 5.25" Drives with Capacities up to 2.88MB
- WatchDog Timer and Power Monitor
- IDE Hard Disk Port
- Universal Serial Bus and Infrared Data Ports for Future Applications
- Clock/Calendar with Battery Back-up
- Half Size AT-type Multilayer Plug-in Board
- 10/100Mbps Auto-sensing Ethernet Port Supports IEEE 802.3u 100BASE-TX Standard
- Y2K Compliant

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## SPECIFICATION

<b>CPU:</b>	233MHz Intel Pentium/MMX, 350MHz Cyrix 6x86MX, and the 350MHz AMD K6
<b>Co-processor:</b>	Internal to the CPU chip
<b>Memory:</b>	System Memory: Expandable to 128MB using 2-72-pin SIMM sockets which support 8MB, 16MB, 32MB, or 64MB EDO or FPM SIMMs. On-board Cache Memory: 512KB high speed Pipelined Burst Cache Memory
<b>BIOS:</b>	AMI with Internal Setup
<b>PCISA Bus:</b>	PCISA compatible to Jump PISA version 1.07
<b>DMA:</b>	7 Channels (4 8-bit and 3 16-bit)
<b>Timers:</b>	3 Programmable
<b>Interrupts:</b>	16
<b>Reset:</b>	Controlled by on-board power detector and optional reset switch
<b>I/O Ports:</b>	2 - RS-232 Serial Ports 1 - Parallel Printer Port 1 - AT Compatible Keyboard Port 1 - Speaker Port with on-board speaker 1 - 3.5"/5.25" Dual Floppy Disk Port 1 - IDE Hard Disk Port 1 - WatchDog Timer 1 - Universal Serial Bus Port 1 - IrDA Infrared Data Port
<b>LAN Port:</b>	Chipset: Realtek RTL8139 Standard: IEEE 802.3u 100BASE-TX Connector: RJ45
<b>VGA Port:</b>	Chipset: Chips & Technology 65555 Bus: PCI Local Bus VRAM: 2MB Resolution: 1024x768 64K colors, 1280x1024 256 colors, 800x600 16M colors CRT Video: 15-pin D connector Flat Panel: 50-pin LCD connector
<b>Speed:</b>	350MHz
<b>Benchmark:</b>	Landmark v2.0 = 1535MHz (266MHz CPU)
<b>Battery:</b>	Lithium for CMOS RAM & Clock/Calendar
<b>Size:</b>	Half Size AT-type board 7.08"L X 4.8"H
<b>Power:</b>	+5VDC @ 5A, +12VDC @ 0.17A, -12VDC @ 0.02A

## ORDERING INFORMATION

The PHV-740E SBC can be ordered in the following configurations:

<i>Part Number</i>	<i>Description</i>
89100	PHV-740E without CPU
89120	PHV-740E/133MHz
89140	PHV-740E/166MHz
89160	PHV-740E/233MHz
89170	PHV-740E/266MHz

All MCSI products carry a two-year unconditional Warranty. Contact MCSI headquarters for OEM quantity purchase ordering information.

Specifications Subject to Change without Notice Revised 10/27/00



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