

# 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

# PHV-740E SBC

## 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<br>1 - Parallel Printer Port<br>1 - AT Compatible Keyboard Port<br>1 - Speaker Port with on-board speaker<br>1 - 3.5"/5.25" Dual Floppy Disk Port<br>1 - IDE Hard Disk Port<br>1 - WatchDog Timer<br>1 - Universal Serial Bus Port<br>1 - IrDA Infrared Data Port |
| <b>LAN Port:</b>     | Chipset: Realtek RTL8139<br>Standard: IEEE 802.3u 100BASE-TX<br>Connector: RJ45   |
| <b>VGA Port:</b>     | Chipset: Chips & Technology 65555<br>Bus: PCI Local Bus<br>VRAM: 2MB<br>Resolution: 1024x768 64K colors, 1280x1024 256 colors, 800x600 16M colors<br>CRT Video: 15-pin D connector<br>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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