



DESCRIPTION

The MCSI IHV-745E Pentium All-In-One half size Single Board Computer (SBC) contains all the basic elements found in a standard IBM PC/AT 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 IHV-745E Pentium SBC was specifically designed to operate in extreme industrial environments, and has an operating temperature range of 0° to 60°C.

FEATURES

- 100% IBM PC/AT Compatible Computer
- Supports 75MHz to 233MHz Pentium, Up to 300MHz 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
- Chips and Technology 65555 VGA Controller with 2MB VRAM
- AT (PS/2) 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
- IDE Hard Disk Port
- 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

IHV-745E SBC

SPECIFICATIONS

CPU:	Supports: Intel Pentium/MMX up to 233MHz, and AMD K6 & Cyrix 6x86MX up to 300MHz
Co-processor:	Internal to the CPU chip
Memory:	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 Mode Cache Memory
BIOS:	AMI with Internal Setup
I/O Bus:	ISA compatible bus
DMA:	7 Channels (4 8-bit and 3 16-bit)
Timers:	3 Programmable
Interrupts:	16
Reset:	Controlled by on-board power detector and optional reset switch
I/O Ports:	2 - RS-232 Serial Ports 1 - Parallel Printer Port 1 - AT (PS/2) Compatible Keyboard Port 1 - PS/2 Compatible Mouse Port 1 - Speaker Port with on-board speaker 1 - 3.5"/5.25" Dual Floppy Disk Port 1 - IDE Hard Disk Port
PROMDISK®:	1 - 32-pin socket supports MCSI PROMDISK-Chip™
LAN Port:	Chipset: Realtek RTL8139 Standard: IEEE 802.3u 100BASE-TX Connector: RJ45
VGA/LCD Port:	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
Speed:	Up to 300MHz
Battery:	Lithium for CMOS RAM & Clock/Calendar
Size:	Half Size AT-type board 7.08" L X 4.8" H
Power:	+5VDC @ 5A, +12VDC@ 0.17A, -12VDC@ 0.02A

ORDERING INFORMATION

The IHV-745E SBC can be ordered in the following configurations:

Part Number	Description	Part Number	Description
88800	IHV-745E without CPU	88850	IHV-745E/200MHz
88820	IHV-745E/133MHz	88860	IHV-745E/233MHz
88840	IHV-745E/166MHz	88870	IHV-745E/266MHz
		88880	IHV-745E/300MHz

WARRANTY

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

Specifications Subject to Change without Notice



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