

PC/AT Compatible Single Board Computer



Description

The MCSI INX-486DX4/100 Single Board Computer is an IBM PC/AT Compatible Plug-in Processor Board designed to be used in passive backplane applications. The INX-486 SBC provides the user with a high-performance PC/AT compatible computer on a half size PC/XT size plug-in board. The most outstanding features include an optional 32MB PROMDISK-Chip™ Disk Emulator, a WatchDog timer, and a 1K-bit E2Key memory for storing user data. The multi-I/O controller includes dual 16C550 UARTs, a floppy port, and an SPP/EPP/ECP multi-mode bi-directional parallel port. The optional PROMDISK-Chip Disk Emulator comes complete with ROM-DOS version 6.22, making it ideal for embedded diskless applications. The 1K-bit E2Key memory is a non-volatile memory is useful for storing user data, such as: critical system parameters, terminal address, etc. The WatchDog timer is ideal for controlling critical processes where unattended operation is essential. The INX-486 SBC operates on a single +5VDC supply, and has an external power connector which allows direct connection to an external power supply making it ideally suited for stand alone applications. The INX-486 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
- Includes 80C486 DX4-100MHz Microprocessor
- Supports up to 32M-bytes of System DRAM
- Optional 32MB PROMDISK-Chip™ Disk Emulator
- AT Compatible Keyboard Port (not required for booting)
- Two 16C550 Compatible RS-232 Serial Ports, Serial Port 2 can be configured as RS-232 or RS-422/485
- 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 2.88M-bytes
- IDE Hard Disk Port
- Clock/Calendar with Battery Back-up
- Operates on Single 5V Supply (7.5 Watts Max)
- Half Size XT-type Multilayer Plug-in Board
- WatchDog Timer and Power Monitor
- 1K-bit E2Key Memory for Storing User Data

CPU

80C486 DX4-100MHz.

Co-proc

Internal to the 486 chip.

Memory

System and EMS Memory: Expandable to 32MB (2-72-pin SIMM Socket supports 1MB, 2MB, 4MB, 8MB, 16MB, or 32MB SIMMs).
Non-volatile Memory: 1Kb E2Key.

BIOS

AMI with Internal Setup.

I/O Bus

ISA compatible bus (62-pin & 36-pin Edge Connectors).

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, Serial Port 2 can configure as RS-422/485	1 - 3.5"/5.25" Dual Floppy Disk Port
1 - Parallel Printer Port	1 - IDE Hard Disk Port (CN4)
1 - AT Compatible Keyboard Port	1 - WatchDog Timer
1 - Speaker Port w/on-board speaker	1 - E2Key 1Kb Non-volatile memory port

Speed

100MHz

Benchmark

Landmark v2.0 = 100MHz

Battery

Lithium for CMOS RAM & Clock/Calendar.

Dimensions

Half Size XT-type board 7.08"L X 4.2"H.

Power

Power: +5VDC @ 1.1A.

Ordering Information

The INX-486 SBC can be ordered in the following configurations:

73100

INX-486