

## PC/AT Compatible Single Board Computer



### Description

The MCSI INX-386SX Single Board Computer is an IBM PC/AT Compatible Plug-in Processor Board designed to be used in passive backplane applications. The INX-386SX SBC provides the user with a high-performance PC/AT compatible computer on a half size PC/AT 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-386SX 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-386SX 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 ALI 6117 ChipSet with integral 80C386SX-40MHz Microprocessor
- Supports up to 16MB 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 (5.5 Watts Max)
- Half Size XT-type Multilayer Plug-in Board
- WatchDog Timer and Power Monitor
- 1K-bit E2Key Memory for Storing User Data

### CPU

80C386SX-40MHz (internal to ALI 6117 Chip).

### Memory

System and EMS Memory: Expandable to 16MB (1-72-pin SIMM Socket supports 1MB, 2MB, 4MB, 8MB, or 16MB 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               |
| 1 - AT Compatible Keyboard Port                                    | 1 - WatchDog Timer                   |
| 1 - Speaker Port w/on-board speaker                                |                                      |

### Speed

8-40MHz jumper selectable.

### Benchmark

Landmark v2.0 = 31MHz

### 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-386SX Processor can be ordered in the following configurations:

73000                      INX-386SX