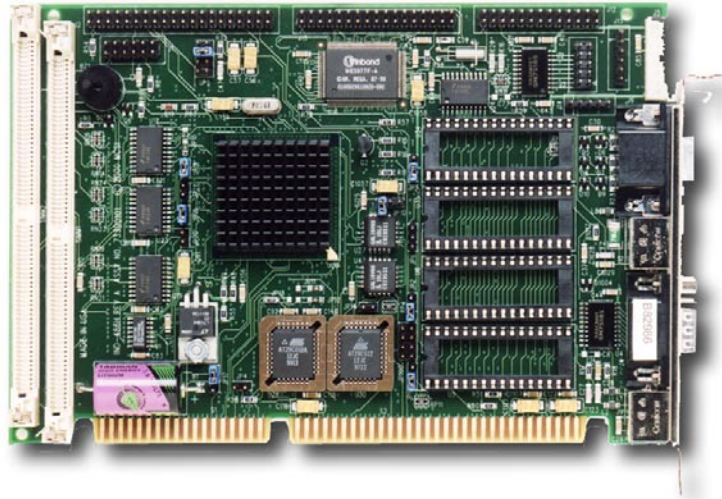


Half-size 486DX2/66 SBC with VGA



Introduction

The MCSI IND-486H Half Size All-In-One 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: a 2M-byte PROMDISK® disk emulator, a PCI EIDE hard disk port to support 2 EIDE drives, a high performance multi-I/O controller, a high performance PCI VGA controller and graphics accelerator, and a WatchDog timer. The board uses the STMicro STPC Client Chipset with includes a 486DX2 66MHz CPU core and integral VGA controller. The super AT I/O includes dual NS16C550 UARTs, an IDE hard disk port, and an ECP/EPP compatible multi-mode bi-directional parallel port. The PROMDISK disk emulator and WatchDog timer make it ideally suited for controlling critical processes where unattended operation is essential. An external power connector is also provided on the IND-486H board which allows direct connection to an external power supply making it ideally suited for stand alone applications. The IND-486H SBC was specifically designed to operate in extreme industrial environments, and has an operating temperature range of 0° to 60°C.

Features

- IBM PC/AT Compatible Plug-in Computer
- ST Micro STPC Client Chipset with 486DX2-66 CPU Core and 387 Math Coprocessor
- AMI BIOS
- 66MHz Operation
- Integral PCI VGA Controller and Graphics Accelerator
- 64M-Byte FPM or EDO DRAM System Memory (2-72pin SIMMs)
- Optional On-board System Memory expandable to 8MB
- 2M-byte PROMDISK Disk Emulator for Diskless Applications
- Includes FLASHCOM software to program Flash EPROMs remotely over COM1 serial port.
- Dual Floppy Disk Port Supports Two 3.5" or 5.25" Drives up to 2.88M-bytes
- PCI Extended IDE Hard Disk Port supports up to Two Drives
- PS2/AT Compatible Keyboard Port
- PS2 Compatible Mouse Port
- Two High Speed 16C550 Compatible RS-232 Serial Ports
- Multimode Bi-directional Parallel Printer Port
- Infrared Data Access Port for future applications
- Clock/Calendar with Battery Back-up
- Low Power CMOS Design
- Half Size AT Plug-in Multilayer Board for Low EMI and High Reliability
- WatchDog Timer and Power Monitor
- On-board Mini Speaker
- Optional External Reset
- Optional Datalight ROM-DOS 6.22 Operating System

CPU

STPC Client with 486DX2-66 CPU core.

Co-processor

Internal to the CPU Chip.

Memory

System Memory and EMS Memory: Expandable to 64M-bytes.
Supports: 4MB, 8MB, 16MB, or 32MB SIMMs using two 72-pin SIMM sockets. Fast Page Mode (FPM) and high performance EDO DRAMs are supported. Optional on-board (soldered in) system memory up to 8MB.

BIOS

AMI with Internal SETUP.

I/O Bus

ISA Compatible Bus (98-pin Edge Connector).

DMA

7 Channels (4 8-bit and 3 16-bit).

Timers

3 Programmable.

Interrupts

16

Reset

External reset switch input.

I/O Ports

2 - RS-232 Serial Ports
1 - Parallel Port
1 - PS/2 Compatible Keyboard Port
1 - PS/2 Mouse Port
1 - Speaker Port with on-board speaker
1 - 3.5"/5.25" Dual Floppy Disk Port
1 - EIDE Hard Disk Port
1 - WatchDog Timer: 1, 2, 10, 20, 110, or 220 sec
1 - Infrared Data PortH

PROMDISK®

2M PROMDISK Disk Emulator, (4) 32-pin sockets, supports EPROMs, FLASH EPROMs, & SRAMs with on-board battery back-up.

VGA Port

Chipset: STPC Client
Bus: Internal PCI Bus
VRAM: Shared from main memory, up to 4M-bytes
Resolution: 1024x768 64K colors
Video Connector: 15-pin DIN

Speed

66MHz

Battery

Lithium for CMOS RAM & Clock/Calendar.

Dimensions

Half Size AT-type board 7.0"L X 4.8"H

Power

+5VDC @ 1.4A, ±12VDC @ 0.020A

Ordering Information

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

73300

IND-486H