

# Mitac Industrial Corporation's Industrial 486 CPU Controller Card



## Features

- Supports Intel 80486SX/DX/DX2/DX4/P24T, AMD Am486DX/DX2/DX4, UMC U5SD, and Cyrix M7 CPUs.
- Support Up to 64MB DRAM On-board Using 72-pin SIMM Modules.
- 256K write-back cache memory.
- Shadow RAM capability for system and video BIOS.
- Supports LIM-EMS V4.0 Address Translation Logic.
- Two serial ports which can be configured by BIOS as COM1, COM2, COM3, COM4, or can be Disabled.
- Bi-directional parallel port which can be configured by BIOS.
- On-board IDE hard drive interface.
- On-board multi-density 5.25/3.5-inch floppy drive interface.
- Built-in buzzer and external speaker connector.
- On-board PS/2 keyboard connector.
- 5-pin header keyboard interface.
- Keyboard lock and Reset switch connectors.
- Turbo switch and Turbo LED connectors.
- Watch-dog timer.
- PC/104 Expansion Bus
- Password protection for system security.
- 6-layer PCB design which meets factory floor requirements.

## Specifications

### Slot Board Computer

#### Main Processor

- Intel: 25/33 Mhz 80486SX,  
33/40 Mhz 80486DX,  
50/66 Mhz 80486DX2,

	<p>75/100 Mhz 80486DX4, P24T</p> <ul style="list-style-type: none"> <li>• AMD: 40 Mhz 80486DX, 50/66 Mhz 486DX/DX2/DX4,</li> <li>• UMC: UMC U5SD</li> <li>• Cyrix: Cyrix M7, 33/40 Mhz Cx486DX, 50/66 Mhz Cx486DX2,</li> </ul>
<b>Main Memory</b>	<ul style="list-style-type: none"> <li>• 1MB up to 64MB Using 1MB, 4MB, 8MB, 16MB, 32MB 72-Pin SIMM Modules.</li> </ul>
<b>Cache Memory</b>	<ul style="list-style-type: none"> <li>• 256K write-back cache SRAM</li> </ul>
<b>System BIOS</b>	<ul style="list-style-type: none"> <li>• Standard 64K of EPROM for AMI system BIOS and setup</li> </ul>
<b>Shadow RAM</b>	<ul style="list-style-type: none"> <li>• Shadow RAM capability for system BIOS and video BIOS</li> </ul>
<b>AT Compatible Controllers</b>	<ul style="list-style-type: none"> <li>• 16 Levels of interrupts</li> <li>• 7 DMA channels</li> <li>• 3 Programmable counter-timer</li> </ul>
<b>Watch-Dog Timer</b>	<ul style="list-style-type: none"> <li>• The timer interval can be set to 150 ms, 600ms, or 1.2 sec.</li> </ul>
<b>DS12887A Real-Time Clock</b>	<ul style="list-style-type: none"> <li>• 10 year data retention</li> <li>• 128 byte RAM locations</li> <li>• CMOS RAM memory can be cleared</li> </ul>
<b>Buzzer</b>	<ul style="list-style-type: none"> <li>• Built-in buzzer and external speaker connector</li> </ul>
<b>Built-in Connectors</b>	<ul style="list-style-type: none"> <li>• Turbo switch and Turbo LED</li> <li>• Reset switch and keyboard switch</li> <li>• Hard disk drive activity LED</li> <li>• External speaker</li> <li>• 3.3V connector for optional power converter</li> </ul>
<b>All-in-One Features</b>	<ul style="list-style-type: none"> <li>• IDE interface: Controls embedded hard disk drives with HDD connector FDD interface: Controls two disk drives, support 5.25/3.5-inch floppy drives</li> <li>• I/O Ports: Controls two RS-232 serial ports /w 16550 compatible UARTs with FIFO Controls on Bi-directional parallel port /w EPP or ECP</li> </ul>

<b>Special On-board Features</b>	<ul style="list-style-type: none"> <li>• PC/104 expansion bus for PC/104 compatible modules such as RAM/ROM disk cards, Fax/modem cards, VGA display adapter cards, PCMCIA IC card adapters, etc.</li> <li>• PC/104 power input from PC/104 power supply</li> </ul>
<b>Keyboard Ports</b>	<ul style="list-style-type: none"> <li>• PS/2 connector on rear on controller</li> <li>• 5-pin header keyboard interface</li> </ul>
<b>Password</b>	<ul style="list-style-type: none"> <li>• System &amp; Setup password protection for system security</li> </ul>
<b>Power Requirements</b>	<ul style="list-style-type: none"> <li>• + 12V @ 25mA Maximum</li> <li>• + 5V @ 2.0A typ. (2 pcs. of SIMM modules)</li> <li>• - 12V @ 3.0mA Maximum</li> </ul>
<b>PCB</b>	<ul style="list-style-type: none"> <li>• 6-layer PCB design</li> </ul>
<b>Dimensions ( L X H )</b>	<ul style="list-style-type: none"> <li>• 7.28 in. X 4.8 in. ( 185mm X 122mm );</li> <li>• Half-size AT card form factor</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• Net Weight: 300g.</li> <li>• Gross Weight: 700g.</li> </ul>
<b>Operating Environment</b>	<ul style="list-style-type: none"> <li>• 0 to 60 C (32 to 140 F)</li> </ul>
<b>Storage Environment</b>	<ul style="list-style-type: none"> <li>• -20 to 85 C (-4 to 185 F)</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>• 5% ~ 95%, Non-condensing</li> </ul>
<b>MTBF</b>	<ul style="list-style-type: none"> <li>• 50,000 Hours</li> </ul>
<b>EMI</b>	<ul style="list-style-type: none"> <li>• FCC Class A, CISPR22</li> </ul>

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