

# MiTAC Industrial Corporation's Pentium CPU Controller



## Features

- PICMG standard compliant, CE and ISO-9001 certified.
- Supports Intel Pentium P54C/P55C, Cyrix M1, and AMD K5 CPU's.
- PC/104 Bus Interface.
- Supports sync 256KB to 1MB SRAM (write-back cache memory) and optional 256KB Pipeline Burst SRAM.
- Two 72-pin SIMM sockets on-board for installing up to 128MB DRAM.
- AMI Flash BIOS Setup in Windows form.
- Shadow RAM capability for system and video BIOS.
- Supports LIM-EMS V4.0 Address Translation Logic.
- Two High-speed serial ports which can be BIOS-configured as COM1, COM2, COM3, COM4, or Disabled.
- Two High-speed serial ports which can be BIOS-configured as EPP or ECP.
- BIOS provides LBA (Logical Block Addressing) mode to support high-capacity hard drives (over 527MB).
- PCI IDE interface supports up to four IDE hard drives.
- Floppy disk controller supports up to 2.88MB format.
- Built-in buzzer and external speaker interface.
- On-board PS/2 keyboard and mouse connector.
- 5-pin header keyboard interface for external connection.
- Keyboard lock and Reset switch interface.
- Ten Stage Watch-dog Timer.
- On-board POST ( Power-on Self-test) LED indicators.
- 2.5V and 3.3V power regulator on-board.
- Password protection for system security.
- 6-Layer PCB design with high noise immunity construction.
- Advanced power filter using OSCON capacitor with low ESR.
- High driving capacity for ISA bus.

## Specifications

Main Processor	Intel: P54C/P55C series Cyrix: M1 6x86 series AMD: K5 5k86 series
Main Memory	2MB up to 128MB, using FPM/EDO/BEDO 72-pin SIMM's
Cache Memory	Supports Async. 256KB SRAM (up to 1MB) and optional 256KB Pipeline Burst SRAM.
Bus Interface	PCIMG, PCI, PC/104 and ISA
System BIOS	Standard 128KB FLASH EPROM for AMI system BIOS and Setup
Shadow RAM	Capacity for system BIOS and Video BIOS
AT Compatible Controllers	16-level interrupts 7 DMA channels 3 Programmable counter-timers
Watch-dog Timer	10 ranges of time-out intervals: 500ms, 1 sec.....512 sec.
External Real-time Clock DS 12887 compatible	10-year data retention; 128 byte RAM locations; CMOS RAM memory can be cleared.
Built-in Connectors	Reset switch and Keyboard lock switch, Hard disk LED, External speaker.
All-in-one Features	<p><b>PCI IDE interface:</b></p> <p>Two IDE interface ports</p> <p>Supports up to four IDE hard disk drives.</p> <p>BIOS provides LBA (Logical Block Addressing) mode to support high capacity hard disk (over 527MB).</p> <p><b>FDD controller:</b></p> <p>Controls up to two floppy disk drives.</p> <p>Supports 3.5inch (720KB, 1.44MB, 2.88MB) and 5.25inch (360KB, 1.2MB) Floppy drives.</p> <p><b>I/O Ports:</b></p> <p>2 PnP serial ports support 16C550 compatible UARTS with FIFO.</p>

	One parallel printer port supports EPP or ECP function.
Keyboard Connectors	PS/2 Connector and 5-pin shrouded external keyboard connector.
Special On-board Connectors	PS/2 mouse connector 8 LED POST (Power-On Self-Test) diagnostic indicators.
Password	System and Setup password protection for system security.
Power Regulator	Uses ALI M1521 352-pin BGA and M1523 208-pin PQFP
Power Requirements	+ 12V @ 25mA max. + 5V @ 3.8A typ. - 12V @ 3mA max.
PCB	6-layer PCB design
Dimensions (L x H)	9.824" x 4.783"
Operating Temperature	0° to 60° C (32° to 140° F)
Storage Temperature	-20° to 85° C (-4° to 185° F)
Humidity	5% to 95%, Non-condensing
MTBF	50,000 hours
EMI	FCC Class A
Certification	CE, ISO-9001
Compliance	PICMG standard compliant

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