The Wayback Machine - https://web.archive.org/web/19970217234704/http://www.mitacinds.com:80/msc-25…
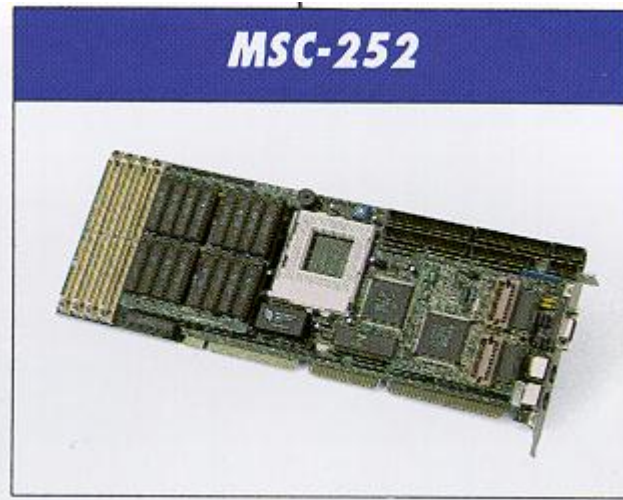
Mitac Industrial Corporation's
Industrial Pentium PCI Bus SBC

Features

- Supports Intel's 75/90/100/120/133/166 MHz Pentium series and Cyrix M1 CPU.
- Configurable with 256K to 2MB of write-back cache memory.
- Four 72-pin SIMM sockets on-board for configuring 1MB up to 128MB of memory.
- AMI FLASH BIOS Setup in windows form factor.
- 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, and COM4, or Disabled.
- One multi-mode parallel port which can be BIOS configured as Bi-directional, EPP, ECP.
- BIOS provides LBA (Logical Block Addressing) mode to support high-capacity hard disks (Over 527MB)
- On-Board PCI IDE hard drive controllers.
- Supports Multi-density 5.25/3.5-inch floppy disk drive interface.
- Built-in buzzer and External Speaker interface.
- On-board PS/2 keyboard connector and keyboard mouse.
- 5-pin header keyboard interface for external connection.
- Keyboard lock and reset switch interface.
- Turbo switch and Turbo LED interface.
- Ten stage of watch-dog timer.
- PCI Local Bus VGA display piggyback module.
- On-Board POST (power-on-self-test) LED indicators.
- Password protection for system security.
- 8-Layer PCB design which meets factory floor requirements.
- Advance power filter using OSCON capacitor with low ESR.
- External 3.3V input for ISA passive backplanes.

Specifications

CPU Controller

Main Processor	Intel: 75/90/100/120/133/166 MHz Pentium Pentium Overdrive Cyrix: M1
Main Memory	1MB up to 128MB, Using 1MB, 4MB, 8MB, 16MB, or 32MB 72-pin SIMM's
Cache Memory	256KB up to 2MB Write-Back Cache SRAM
Bus Interface	PCI Local Bus and ISA PC/AT compatible Bus
System BIOS	Standard 64KB of FLASH EPROM for AMI system BIOS and Setup.
Shadow RAM	Shadow RAM Capability 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 Interval 500ms, 1sec…., or 512 sec.
DS12887A Real Time Clock	10-year Data Retention 128 Byte RAM Locations User-Replaceable CMOS RAM memory can be cleared
Built-in Connectors	Turbo Switch and Turbo LED Reset Switch and Keyboard Lock Switch Hard Disk LED External Speaker
All-in-one Features	PCI IDE Interface: Two PCI IDE Interface Ports (Primary and Secondary) Supports Four IDE Hard Disk Drives BIOS Provides LBA Mode to Support High-Capacity Hard Disks (Over 527MB) Floppy Drive Controller:

	Controls up to Two Floppy Disk Drives
	Supports 3.5-inch (720KB, 1.44MB, and 2.88MB) and 5.25-inch (360KB and 1.2MB) Floppy Drives
	I/O Ports:
	Two RS-232 Serial Ports Support 16C550 Compatible UARTS with FIFO
	One Parallel Printer Port Supports Bi-directional, EPP, and ECP
Special On-board Features	PS/2 Mouse Connector
	PCI Local Bus VGA Piggyback Module:
	Maximum Resolution of 1280 x 1024 256 Colors for 2MB Display Memory, with VGA Module Connected to CPU Controller Card
	8 LED POST (power-on-self-test) Diagnostic Indicators
Keyboard Connectors	PS/2 Connector and a 5-pin Shrouded External Keyboard Connector
Password	System and Setup Password Protection for System Security
Power Requirements	+ 12V @ 25mA Maximum
	+ 5V @ 2.5A Typical (4 pcs. of SIMMs, w/o VGA Module)
	+3.3V @ 2A typical
	-12V @ 3mA Maximum
PCB	8-Layer PCB Design
Dimensions (L x H)	13.37in x 4.78in
	337mm x 121.5mm
	Dedicated Full-size PCI/AT Card Form Factor

Environmental Specifications

Operating Temperature	0 - 60º C (32 - 140º F)
Storage Temperature	-20 - 85º C (-4 - 185º F)
Weight	1.2 lbs. (0.5 kg)
MTBF	50,000 Hours
Humidity	5% - 95%, Non-condensing
EMI	FCC Class A Approved

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