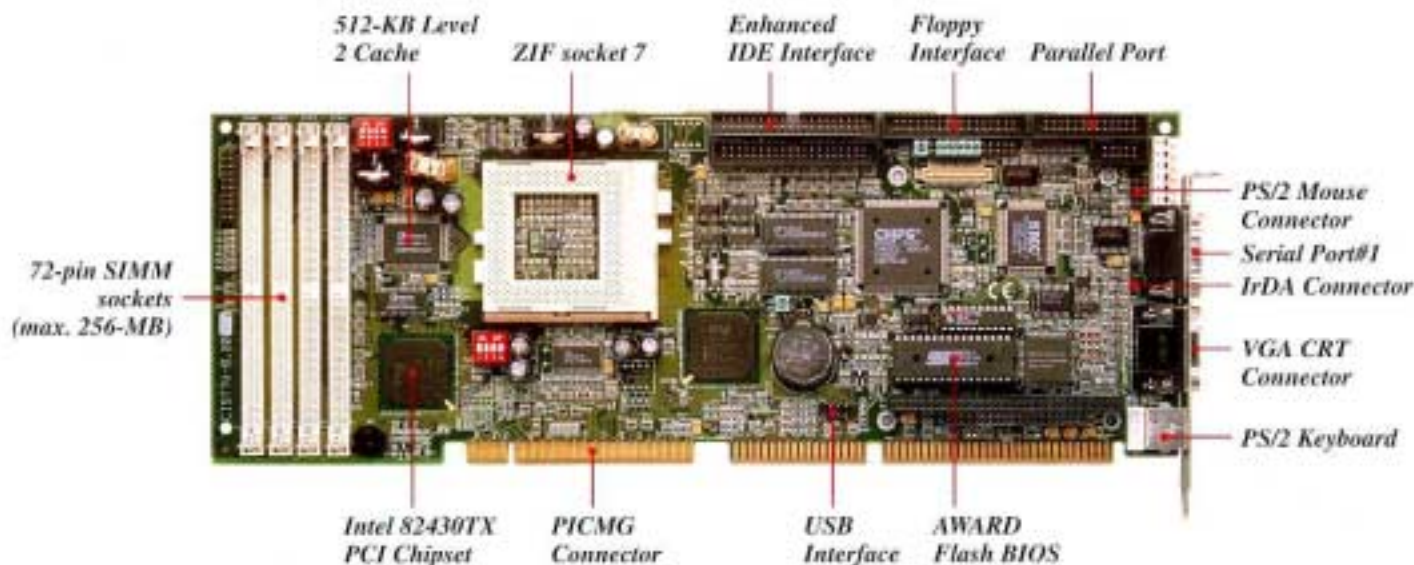


# MSC-356



## Pentium PICMG SBC with VGA/LCD Interface



### Introduction

The MSC-356 industrial CPU Card is based on Intel's 430TX chipset and is designed for harsh industrial environments. The MSC-356 is Microsoft PC97 compliance with power management functionality of ACPI (Advanced Configuration Power Interface). Advanced I/O functions include the improved disk I/O feature of Ultra DMA/33, and USB (Universal Serial Bus) headers for connections of up to 127 Plug and Play external peripherals.

This MSC-356 features a PGA Socket 7 which is compatible with various processors – Intel (P54C, P55C/MMX), AMD (K5, K6) and Cyrix/IBM (6x86, 6x86L, 6x86MX). Four onboard 72-pin SIMM sockets offer a maximum configuration of 256MB memory using Fast Page Mode (FPM) or Extended Data Output (EDO) DRAMs.

To protect your processor from overheating, the MSC-356 is equipped with an LM75 CPU temperature sensor to monitor your system for temperature. Other standard features include: SMC 37C669 multi-I/O chip, 16-level watchdog timer, on-board AT and ATX power connectors, on-board C&T 65550 VGA that supports CRT and LCD displays, and IrDA capability.

### Features

- Supports Intel (P54C, P55C/MMX), Cyrix (6x86, 6x86L, 6x86MX), AMD (K5, K6), 90 – 233MHz.
- PICMG standard compliant with PC/104 bus interface.
- 512KB of Pipeline Burst level 2 cache memory.
- Four 72-pin SIMM sockets supports up to 256MB of either FPM or EDO DRAMs.
- AWARD PnP BIOS in single Flash ROM with VGA BIOS.
- Two integrated PCI-Bus Master EIDE interfaces capable of supporting up to four IDE disk drives in Master/Slave configuration. Supports Ultra DMA/33 devices with synchronous DMA transferring up to 33MB per sec.
- One integrated floppy diskette drive controller.
- Two serial ports with 16550 UARTs which configurable as two RS-232 ports or one RS-232 and one RS-422/485 ports.
- One multi-mode parallel port.
- 16-level watchdog timer.
- Supports two USB ports and IrDA connector for wireless communications.
- Supports heat sensor under CPU socket for temperature monitor and alert.
- On-board switching voltage regulator.
- 6-layer PCB design with high-noise immunity construction.

**Specifications**

<b>Processor</b>	Intel P54C, P55C/MMX, Cyrix (6x86, 6x86L, 6x86MX), AMD (K5, K6)
<b>Processor Socket</b>	ZIF Socket 7, 90MHz-233MHz
<b>Chipset</b>	Intel 82430TX PCI chipset
<b>Bus Interface</b>	PICMG (PCI/ISA)
<b>Memory</b>	Four 72-pin SIMM sockets supporting up to 256MB using FPM/EDO DRAM
<b>Cache</b>	On-board 512KB of Pipeline Burst SRAM
<b>BIOS</b>	Licensed PnP Flash AWARD BIOS
<b>IDE Interface</b>	Two Bus Mastering EIDE interface supporting up to four, Ultra DMA/33 storage devices
<b>FDD Interface</b>	Supports up to two floppy disk drives
<b>Serial Port</b>	Two serial ports with COM1 configured as RS-232 and COM2 jumper selectable as either RS-232, RS-422 or RS-485
<b>Parallel Port</b>	One ECP/EPP/SPP parallel printer port, BIOS configurable
<b>Mouse</b>	Mini-DIN PS/2 mouse connector
<b>Keyboard</b>	Mini-DIN PS/2 connector and 5-pin shrouded external keyboard connector
<b>Speaker</b>	Internal buzzer and external speaker connector

<b>Watchdog Timer</b>	16 level
<b>Onboard VGA</b>	C&T 65550 chip with 1MB memory (PCI Bus / supports LCD/CRT displays)
<b>AT Power Connector</b>	6-pin external power connector
<b>All-In-One Features</b>	Auto fan-off LM-75 CPU temperature sensor PC/104 extension Switching voltage regulator
<b>PCB Layer</b>	6-layers PCB design
<b>Dimensions (L x H)</b>	340 x 124 mm
<b>Operating Temp.</b>	0 ~ 60°C
<b>Humidity</b>	5% ~ 95%
<b>Shock</b>	30g, 11ms duration, half-sine shock pulse

Note: Specification is subject to change without notice.



**MiTAC INDUSTRIAL CORP.**

41968 Christy St., Fremont, CA 94538, U.S.A. • TEL: 510-656-5288 • FAX: 510-656-2669 • [http:// www.mitacinds.com](http://www.mitacinds.com)