

MSC-373

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*Advanced Socket 370 PICMG
Full-Sized Slot Board Computer*



Introduction

The MSC-373 all-in-one full-sized single board computer is designed to fit a high performance Socket 370 P-II Celeron/P-III Coppermine based processor for high-end computer system application with PCI/ISA bus architecture. It is made to meet today's demanding pace, and keep complete compatibility with hardware and software designed for the IBM PC/AT. The on-board devices support one AGP-bus VGA and one PCI-bus Network controller. Its benefit is to build a high performance and high data availability system for VARs, or system integrators.

This MSC-373 can run with Intel Socket 370 processors, and support up to 1GB SDRAM DIMM modules. The enhanced on-board PCI-IDE interface can support 4 drives up to PIO mode 4 timing, and Ultra DMA/33 synchronous mode feature. The on-board Super I/O chipset integrates floppy controller, two serial ports, one FIR (Fast Infrared) port, and one parallel port. Two high performance 16C550-compatible UARTs provide 16-byte send/receive FIFOs, and the multi-mode parallel port supports SPP/EPP/ECP function. Two Universal Serial Bus ports provide high-speed data communication between peripherals and PC. The PICMG standard makes the MSC-373 work with the legacy ISA, ISA/PCI, or multi-slots PCI bus backplane. The on-board 32-pin DIP socket supports M-System Disk-On-Chip Flash Disk up

to 144MB. Built-in Watch-Dog Timer function monitors your system status. Two 6-pin Mini-DIN connectors are provided to connect the PS/2 mouse and keyboard. The on-board Flash ROM is used to make the BIOS update easier. An additional 5-pin shrouded connector is reserved for connecting keyboard interface on the backplane. The high precision Real Time Clock /Calendar is built to support Y2K for accurate scheduling and storing configuration information. One 4-pin header is designed to support ATX power function. A feature of CPU overheat protection will give user more security and stability. All of these features make the MSC-373 an excellent product for stand-alone applications

Features

- Support single Socket 370 processor with bus clock up to 100MHz
- Support max. SDRAM memory up to 1GB with ECC function
- Full-size All-In-One SBC with PICMG 2.0 compliant
- Support 10/100 Base-T Ethernet and AGP VGA on-board
- Fully complies with PCI Bus spec. V2.1
- PC'98 & Year 2000 compliant
- Support high driving capability for ISA-bus

Specification

Chipset Intel 440bx AGPset	Support Intel Pentium III processor (Coppermine) up to 700MHz or Celeron processor up to 566MHz
Main Memory	Four 168-pin DIMM sockets Support 3.3V SDRAM up to 1GB 64Mbit DRAM technology ECC function supported
System BIOS	AMI BIOS with PC'98 support
On Board I/O	<p>IDE Interface : Support two enhanced IDE ports up to four HDDs with PIO mode 4 , Ultra DMA/33 and Bus Master feature</p> <p>FDD Interface : Support one FDD port up to two floppy disk drives</p> <p>Serial Ports : Support two standard high speed serial ports with optional RS-232/422/485 feature</p> <p>IrDA Interface : Support one Infrared port</p> <p>Parallel Port : Support one SPP, EPP/ECP bi-directional parallel port</p> <p>USB Port : Support two USB ports</p> <p>PS/2 keyboard & Mouse supported</p>

Real-time Clock/Calendar (RTC)	DS1687 or equivalent for 10 years of data retention to support real hardware Y2K
Watch-Dog Timer	With 8 time intervals from 0.5sec. to 64sec. by jumper setting or 255 intervals from 0.5 min. to 54.5min. by software programming
System Monitoring and Protection	Monitoring system temperature, voltage, and cooling fan status Auto Throttling Control when CPU overheats
On-board VGA Display (Chipset B69000)	Asiliant (C&T) 69000 (2MB SDRAM built-in chipset)
LCD Panel (Optional)	Reserved one 50-pin (2x25) connector for one or dual-channel LCD panel kit support
On-board Ethernet Function (Intel 82559)	Adopts PCI interface Support 10/100BASE-T with one RJ-45 interface port
Proprietary PCI Interface Bus	Reserved one 80-pin connector for extended PCI device module connected through this proprietary PCI-bus interface to host system
Physical and Environmental Requirements	PCB outline:13.36" * 4.78" Power Requirements : +5V@6.5A (typ.), +12V@140mA, -12V@30mA Operating Temperature:0-55°C

Ordering Guide

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Advanced Socket370 PICMG SBC with PCI Ethernet, AGP VGA/Panel Display

Optional PCI Modules:

MDB-373S: Adaptec 7892 Ultra 160 SCSI

MDB-373L: Intel 82559 Ethernet

MDB-373A: Crystal PCI Audio, 16-bit with integrated FM synthesizer

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)