

# MSC-373

## MSC-373



*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**

<b>Chipset Intel 440bx AGPset</b>	Support Intel Pentium III processor (Coppermine) up to 700MHz or Celeron processor up to 566MHz
<b>Main Memory</b>	Four 168-pin DIMM sockets Support 3.3V SDRAM up to 1GB 64Mbit DRAM technology ECC function supported
<b>System BIOS</b>	AMI BIOS with PC'98 support
<b>On Board I/O</b>	<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 &amp; Mouse supported</p>

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

**Ordering Guide**

**MSC-373**

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.



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