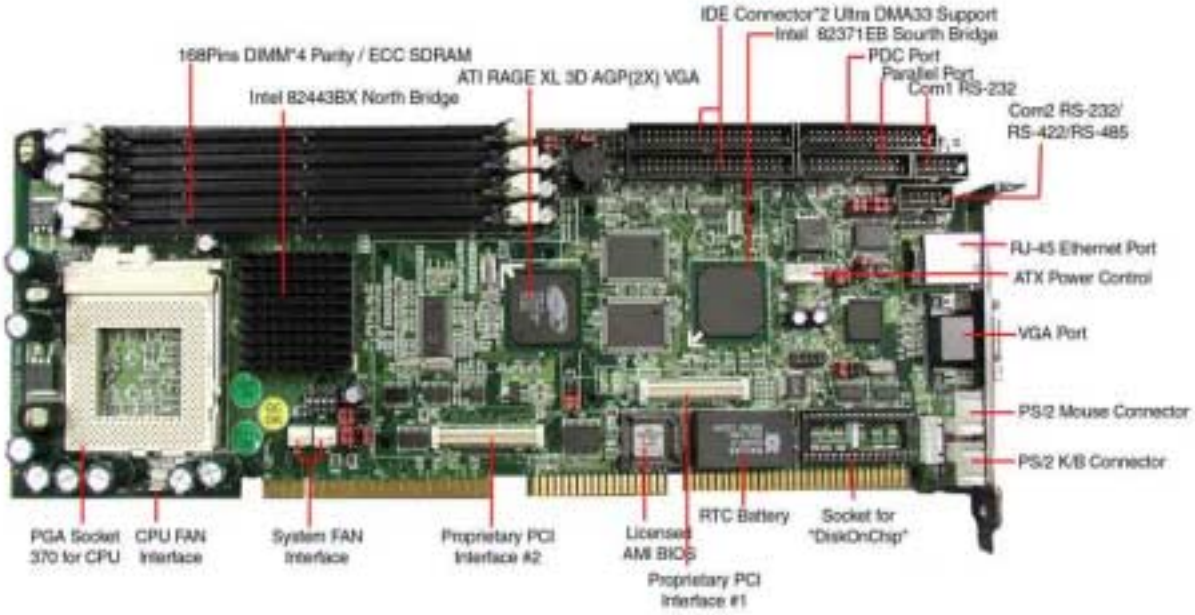
MSC-376

Advanced Socket 370 PICMG SBC With ATI Rage XL 8MB VGA / LAN



Introduction

The MSC-376 all-in-one full-sized PICMG 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 integrated ATI Rage XL 8MB AGP2x chipset supports CRT displays with up to 1600 x 1200 3D resolution, and refresh rates 85Hz. Four 168-pin DIMM sockets are provided on the card, which can be installed with up to 1GB of memory. It also offers several industrial features such as watchdog timer and on-board Intel 10/100 Base-T networking connection. Two proprietary PCI Interface Bus to connect optional Adaptec Ultra 160 SCSI controller, PCI audio, or additional Intel LAN. The MSC-376 is a highly reliable line of CPU card perfect for IPC applications of computer telephony integration applications.

Features

- Support Intel Celeron (Socket 370) or Pentium III (FC-PGA 370pin)
- Intel 440BX Chipset
- 4 x 168-pin DIMM sockets UP to 1GB
- Bus master IDE and Ultra DMA-33 supported
- 8 time intervals watchdog timer by jumper or 255 intervals by software programming
- M-System Disk On Chip flash disk, supports up to 288MB
- ATI Rage XL 8MB AGP2X VGA controller for CRT displays
- On-board Intel 82559 auto-switching 10/100 Base-T Ethernet
- Monitoring system temperature, voltage, and cooling fan status
- Supports two USB ports
- Supports IrDA
- Supports Wake on LAN & modem ring-on
- 2 Proprietary PCI Interface BUS

Specifications

Processor	Intel Celeron (Socket 370) or Pentium III (FC-PGA 370 pin)
CPU Speed	850 Mhz
BUS Clock Rate	66/100 MHz
Chipset	Intel 440BX Chipset
BIOS	AMI BIOS with PC'98 support
Cache	Integrated in CPU
Main Memory	Four 168-pin DIMM sockets, Supports up to 1GB
IDE Interface	Two channels for up to four IDE devices Support bus master Ultra DMA 33
FDD Interface	Supports up to two floppy disk drives
Serial Port	One RS-232 and One RS-232 / 422 / 485
Parallel Port	One ECP/EPP/SPP parallel port
Disk On Chip	M system Disk On Chip flash disk up to 288MB storage capacity
Keyboard/Mouse Connectors	PS/2 6-pin and 5pin header keyboard connector PS/2 6-pin mouse connector
Watchdog Timer	8 times (jumper setting) 255-level (software setting)
USB	Two USB ports
IrDA	One IrDA connector

Power Supply Voltage	+5V @ 7.5A +12V @ 100mA -12V @30mA
VGA Chipset	ATI Rage XL 8MB AGP2x
Display Memory	8MB SGRAM
Display Type	Supports CRT
Display Resolution	Displays up to 1600x1200 for 3D Refresh rates 85Hz
LAN Chipset	Intel 82559
Ethernet Bus	10/100 Base-T Ethernet RJ-45 connector on board
Proprietary PCI Interface BUS	Reserved two 80-pin connector for extended PCI device module
Optional PCI Modules	Adaptec 7892 Ultra 160 SCCI Intel 82559 Ethernet Crystal PCI Audio
ISA Buffer	Support high driving capability for ISA-BUS
Dimensions (L x W)	339.5mm x 121.5mm (13.36" x 4.78")
Operating Temperature	0 ^{o}C ~ 55 ^{o}C
Relative Humidity	5% ~ 95%, Non-condensing
EMI/EMS	CE Class A compliant FCC Class A approved

Note: Specification is subject to change without notice.

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