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MSC-257

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Pentium All-in-One CPU Card with VGA

Introduction

The MSC-257 is a high performance, rich features, all-in-one Single Board Computer which support Intel P54C/55C, Cyrix M1 and AMD K5 CPU series at PICMG standard bus architecture.

It offers all the function of an Industrial computer on a single board, including high performance PCI VGA features of 64-bit 2D/3D GRAPHICS ENGINE, S3 ViRGE Integrated 3D accelerator, Max. resolution 1280x1024 in 256 color as well as the upgradable TV tuner, MPEG H/W function. Besides, it is also equipped with PCI LAN and PCI SCSI-II, ULTRA-WIDE SCSI.

In addition, it is equipped with M SYSTEM disk on chip SSD being upgradable of 12MB flash memory, default 256KB synchronized SRAM up to 1MB and the support of FPM,EDO BEDO DRAM up to 256MB. Basic I/O include two RS-232 and RS-232/422/485, multi-mode parallel (ECP/EPP),10 range Watch-dog Timer, 8-LEDs POST diagnostic indicators, as well as one Keyboard, PS/2 mouse interface, PCI IDE up to four IDE HDD with PIO mode 5.

For more details features and specifications, please refer to attached page features and specifications.

Features

* Support Intel P54C/P55C,Cyrix M1, AMD K5 CPU series

* Fully support 16-bit I/O decoding feature

* External RTC BQ3287A, 10-year data retention

* Non-loss CMOS setup design

* On board VGA feature

High performance 64 bit 2D/3D graphics engine

S3 ViRGE Integrated 3D Accelerator

2MB EDO display memory up to 4MB

Max. resolution 1280 x 1024 in 256 color

LPB (Local Peripheral Bus) connector for TV tuner, H/W MPEG function upgradable

* On board PCI LAN feature:

Support IEEE 802.3 and ANSI 8802-3 Ethernet standard

Supports full-duplex operation on both MII (Media Independent Interface),10BASE-T and 100BASE-T

* Built-in PS/2 Keyboard, PS/2 mouse interface, PCI IDE up to four IDE HDD with PIO mode 5

* Support PnP, 2S (with FIFO 16C550 compatible) with optional RS-232/422/485, 1P (EPP/ECP), FDC up to 2.88MB format

* 10 stage Watch-dog Timer 500ms to 512s

* 8-LED POST diagnostic indicators

Specification

* CPU: Intel Pentium P54C/55C, Cyrix M1, AMD K5

* BIOS: AMI

* Cache memory size: 256KB Sync SRAM up to 1MB

* Bus Interface: PCI/ISA bus (PICMG)

* RAM memory: Four 72-pin SIMM up to 256MB, support FPM/EDO/BEDO DRAM

* Basic I/O:

Two RS-232/422/485

One Parallel Port (EPP/ECP)

One FDC, two IDE interface port

One RJ-45 Ethernet interface port

One 50-pin SCSI-II port and one 68-pin Ultra SCSI port

Non-loss CMOS setup design

Watch-dog timer of 0.5s - 512s

* PCB dimension: 13.268"(L) X 4.783" (H)

* Memory type:

Support SIMM FPM/EDO/BEDO DRAM

Support 5V flash EEPROM BIOS

Support video EDO DRAM up to 4MB

Support M system disk on chip SSD up to 12MB

* Chipset: ALI M1521/1523I