

MIC-3392

6U CompactPCI Intel® Core™ 2 Duo Processor-based Board with Dual PCIe GbE/DDR2/SATA/PMC

NEW



PICMG 2.16

IPMI 2.0



Features

- Supports Intel® Core™ 2 Duo processor
- Intel 945GM chipset supports 533/667 MHz FSB
- Up to 4 GB (DDR2 533/667) memory with SODIMM expansion
- Comprehensive I/O capability, dual Gigabit Ethernet, SATA, CompactFlash
- One 64-bit/66 MHz PMC expansion slot, and optional second 64-bit/66 MHz PMC expansion slot
- PICMG 2.16, R1.0 Packet Switching Backplane Specification compliant
- PICMG 2.9, R1.0 IPMI Specification compliant
- PICMG 2.1, R2.0 Hot-Swap Specification compliant
- Selectable System/Peripheral mode

Introduction

The MIC-3392 is a high performance, power efficient CompactPCI single board computer based on the Intel Core 2 Duo processor. It combines the benefits of two execution cores with intelligent power management features to deliver significantly greater performance per watt over previous Intel processors. The two execution cores share a power-optimized 667 MHz front side bus to access the same system memory. To save power, address and data buffers are turned off when there is no activity.

The MIC-3392 uses PCI Express (PCIe) technology to maximize I/O throughput. It supports up to 4 GB of 667 MHz DDR2 RAM (6.4 GB/s throughput), an onboard 2.5" Serial ATA HDD and a CompactFlash slot. Two front-accessible PCI Express (PCIe) Gigabit Ethernet (GbE) ports provide a bidirectional bandwidth of 2 Gb/s. In addition, the MIC-3392 supports Rear Transition Boards and PCI Mezzanine Cards for further expansion options.

Specifications

| | | |
|------------------|--------------------|---|
| Processor System | CPU (Not Included) | Intel Core 2 Duo processor |
| | Max. Speed | 2.0 GHz (4 MB L2 cache) |
| | Chipset | Intel 945GM |
| | BIOS | AMI 4 Mbit flash |
| Bus | Front Side Bus | 533/667 MHz |
| | PCI | Up to 64-bit/100 MHz |
| Memory | Technology | DDR2 533/667 SDRAM |
| | Max. Capacity | 4 GB |
| | Socket | SODIMM x 1 1 GB/ 2 GB memory integrated on board |
| Graphic | Controller | Intel 945GM integrated |
| | VRAM | Dynamic |
| | Resolution | Up to 2048 x 1536, 64k color at 75 Hz |
| Ethernet | Interface | 10/100/1000Base-TX Ethernet |
| | Controller | Intel 82573E x 2 |
| | I/O Connector | RJ-45 x 2 (front) |
| Storage | Mode | SATA |
| | Channels | 2 |
| | Storage Site | One SATA connector and space reserved for embedded 2.5" HDD |
| Bridge | Bus | PCI 64-bit/66 MHz |
| | Interface | Universal (System/Peripheral mode capability) |
| I/O Interface | Serial (COM1) | RJ-45 x 1 (front) |
| Operating System | Compatibility | Windows® Vista/XP/2000, Linux Fedora Core 5 |
| Hardware Monitor | Controller | Winbond W83783G |
| | Monitor | CPU temperature, +3.3 V, +5 V, +12 V |
| Watchdog Timer | Output | Interrupt, system reset, NMI |
| | Interval | Programmable, 0 ~ 255 sec. |
| PMC | Site | 1 |
| | Interface | PCI Mezzanine (IEEE1386.1 compliant) |
| | Signal | +5 V/+3.3 V compliant |

Specifications Cont.

| | | | | | |
|--|-----------------------|---|--------|---|-------|
| Miscellaneous | Solid State Disk | One CompactFlash socket | | | |
| | LEDs | HDD, Power, Hot Swap | | | |
| | USB 2.0 | 2 channels | | | |
| | Real Time Clock | Built-in to the South Bridge | | | |
| Power Requirement (Intel Core 2 Duo 2 GHz with 2 GB memory) | Voltage | +3.3 V | +5 V | +12 V | - 12V |
| | Typical | 2.66 A | 3.04 A | 0.39 A | 0 A |
| | Maximum | 3.17 A | 7.16 A | 0.40 A | 0 A |
| Physical | Dimensions | 233.35 x 160 mm (9.19" x 6.3"), 1-slot width | | | |
| | Weight | 0.8 kg (1.76 lb) | | | |
| Environment | Temperature | Operating 0 ~ 55° C (32 ~ 122° F) | | Non-Operating -40 ~ 70° C (-40 ~ 140° F) | |
| | Humidity | 95% @ 60° C (non-condensing) | | | |
| | Shock | 20 G | | 50 G | |
| | Vibration(5 ~ 500 Hz) | 1.5 Grms | | 2.0 G | |
| | Altitude | 60 m below sea level to 4000 m above sea level | | | |
| Regulatory | Conformance | FCC Class A, CE | | | |
| | NEBS Level 3 | Design for GR-63-core & GR-1089-core | | | |
| Compliance | Standard | PICMG 2.0, R3.0 CompactPCI Specification | | | |
| | | PICMG 2.1, R2.0 Hot-Swap Specification PICMG 2.9, R1.0 IPMI Specification PICMG 2.16, R1.0 Packet Switching Backplane Specification | | | |

Recommended Configurations

| CPU Board | PMC Module | Rear I/O Board | Enclosure |
|------------------------------|--------------------------|--|--|
| MIC-3392A-MxE, MIC-3392B-MxE | MIC-3665-AE, MIC-3665-BE | RIO-3310AE, RIO-3310S-A1E, RIO-3310S-A2E | MIC-3039-B, MIC-3042, MIC-3043, MIC-3081B, MIC-3056, MIC-3041, CP-150 series |

Rear Transition Board

| Model | Rear Panel | | | | | | | Onboard Header/Socket/Connector | | | | | | | |
|---------------|------------|-------|---------|-----|-----|------------------|--------|---------------------------------|------|-----|--------|-----|-----|------------|-------|
| | KB & Mouse | COM2* | GbE LAN | VGA | USB | 10/100Base-T LAN | SCSI** | IDE | SATA | FDD | SCSI** | PRT | USB | Slot Width | Conn. |
| RIO-3310S-A1E | 1 | 1 | 2 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | J3/J5 |
| RIO-3310S-A2E | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | J3/J5 |
| RIO-3310AE | 1 | 1 | 2 | 1 | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 | 1 | J3/J5 |

* Optional 3rd LAN port occupies the rear COM2 port

** Internal Ultra 320 SCSI port with optional external rear I/O port

Ordering Information

| Model Number | Front Panel I/O | | | | | Main Onboard Features | | | | |
|---------------|-----------------|-----|-----|-----|-----|-----------------------|--------|-----------|-----------------|------------|
| | LAN | COM | PMC | USB | VGA | CPU | Memory | CF Socket | Storage Channel | Slot Width |
| MIC-3392A-M1E | 2 | 1 | 1 | 2 | 1 | - | 1 GB | 1 | 1 | 1 |
| MIC-3392A-M2E | 2 | 1 | 1 | 2 | 1 | - | 2 GB | 1 | 1 | 1 |
| MIC-3392B-M1E | 1 | 1 | 2 | - | - | - | 1 GB | 1 | 1 | 1 |
| MIC-3392B-M2E | 1 | 1 | 2 | - | - | - | 2 GB | 1 | 1 | 1 |

