MIC-3392

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



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

All product specifications are subject to change without notice
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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		Operating		Non-Operating	
	Temperature	0 ~ 55° C (32 ~ 122° F)		-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



