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Find the *Advantech MIC-3392A-M1E* at our website: *Click HERE*

MIC-3392Rev2

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



Features

- Supports Intel® Core™2 Duo processor
- Intel® 945GME chipset supports 533/667 MHz FSB
- Up to 3 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 Intel® 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 3 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 T7400, Core Duo T2500, Celeron 530 or Celeron M 440 processor (Enclosure with forced air cooling is required)
	Max. Speed	2.16 GHz (up to 4 MB L2 cache)
	Chipset	Intel 945GME
	BIOS	AMI 8 M-bit flash
Bus	Front Side Bus	533/667 MHz
	PCI	Up to 64-bit/100 MHz
Memory	Technology	DDR2 533/667 SDRAM
	Max. Capacity	3 GB
	Socket	SODIMM x 1 1 GB/ 2 GB memory integrated on board
Graphics	Controller	Intel 945GME integrated
	VRAM	Dynamic
	Resolution	Up to 2048 x 1536, 64k color at 75 Hz
Ethernet	Interface	10/100/1000 Mbps Ethernet
	Controller	Intel 82573E x 2
	I/O Connector	RJ-45 x 2 (front)
Storage	Mode	SATA
	Channels	1
	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
Hardware Monitor	Controller	Winbond W83627DHG
	Monitor	CPU temperature, +3.3 V, +5 V, +12 V
Watchdog Timer	Output	System reset
	Interval	Programmable, 0 ~ 255 sec.
PMC	Site	1 or 2
	Interface	IEEE1386.1 64-bit/66 MHz on A version PMC1 and PMC2 are 64-bit/66 MHz on B version
	Signal	+5 V/+3.3 V compliant

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Specifications (Cont.)

Miscellaneous	Solid State Disk	One CompactFlash socket			
	LEDs	HDD, Power, Hot Swap, system/peripheral			
	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	-12 V
	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 Characteristics	Dimensions (W x D)	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 ~ 60° C (32 ~ 140° F)		-20 ~ 60° C (-4 ~ -140° F)	
	Humidity	-		95% @ 60° C (non-condensing)	
	Vibration	5 ~ 500 Hz 1.5 Grms (without on-bard HDD)		5 ~ 500 Hz, 3.5 Grms	
	Altitude	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			

*Note: Optional large heatsink available but only adapted to single PMC model. Please contact your local distributor for ordering information.

Recommended Configurations

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3392A2-MxE, MIC-3392B2-MxE	MIC-3665-AE, MIC-3665-BE	RIO-3310AE, RIO-3310S-A1E, RIO-3310S-A2E	MIC-3042, MIC-3043

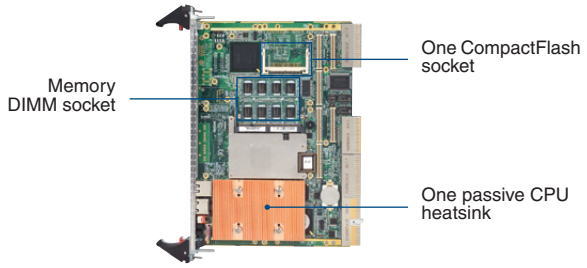
Rear Transition Board

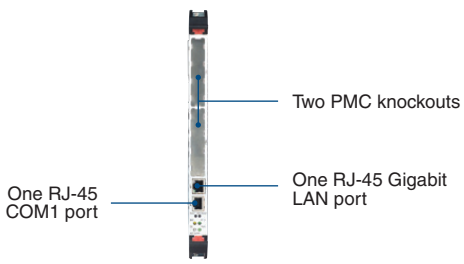
Part	Rear Panel							Onboard Header/Socket/Connector							
	KB & Mouse	COM2 *	GbE LAN	VGA	USB	10/100 Mbps LAN	SCSI **	IDE	SATA	FDD	SCSI**	PRT	USB	Slot Width	Conn.
RIO-3310S-A1E	1	1	2	1	1	1	-	1	1	1	1	1	1	1	J3/J5
RIO-3310S-A2E	1	1	2	1	1	1	1	1	1	1	1	1	1	1	J3/J5
RIO-3310AE	1	1	2	1	1	1	-	1	1	1	-	1	1	1	J3/J5

*Note: Optional 3rd LAN port occupies the rear COM2 port
**Note: 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-3392A2-M1E	2	1	1	2	1	-	1 GB	1	1	1
MIC-3392A2-M2E	2	1	1	2	1	-	2 GB	1	1	1
MIC-3392B2-M1E	1	1	2	-	-	-	1 GB	1	1	1
MIC-3392B2-M2E	1	1	2	-	-	-	2 GB	1	1	1





Note: These pictures are based on the "MIC-3392B2-M1E" model.

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