

MIC-3368

6U CompactPCI® Low Power Pentium® III Processor Board with VGA/Dual LAN/PMC/ Embedded HDD



Features

- Low power Intel® Pentium® III 700 MHz (BGA2) processor built in
- Intel 440GX chipset
- PICMG® 2.16 compliant with Packet Switching Backplane Specification
- Full Hot-Swap Specification compliance (PICMG 2.1, R2.0)
- Up to 1 GB ECC SO-DIMM SDRAM memory
- One 32-bit PMC expansion site
- Dual Fast 10/100 Mbps Ethernet on board with rear I/O
- Embedded 2.5" HDD or optional CompactFlash

CE FCC

Introduction

The MIC-3368 series CompactPCI low power CPU board is an ultra-high density design built around a cost effective Intel Pentium III processor and with upgradeable SODIMM expansion to

With fully integrated features, the MIC-3368 can be used as a powerful system master CPU board or as a server blade connected to a PICMG 2.16 Packet Switched Backplane for switched-fabric communication between blades.

The MIC-3368 was designed with a maximum power requirement of 25 Watts for applications with airflow or cooling constraints.

With all these features and inherent hot swap functionality, the MIC-3368 is perfectly matched for mission critical telecom and data communication applications where high availability is essential, such as 3G wireless infrastructure, Voice-over-IP, media gateways, softswitches and triple-play server clusters.

Specifications

		MIC-3368B	MIC-3368C	MIC-3368E	MIC-3368E1
Processor System	CPU	Intel Pentium III low power			
	Max. Speed	700 MHz (100 MHz FSB)			1 GHz (133 MHz FSB)
	L2 Cache	256 KB			
	Chipset	Intel 440BX	Intel 440GX	Intel 440GX	Intel 440GX
	BIOS	Award 2 Mbit Flash (network booting optional)			
Bus	Front Side Bus	66/100 MHz			
	PCI	32-bit/33 MHz			
SCSI Controller Support		-	Rear I/O	Rear I/O	
Memory	Technology	PC-100 SDRAM with ECC support			
	Max. Capacity	512 MB	1 GB	1 GB	1 GB
	Socket	144-pin SO-DIMM x2			
Graphic	Controller	69030			
	VRAM	4 MB SDRAM			
Ethernet	Interface	10/100Base-TX			
	Controller	Intel 82559 x2			
	Connector	RJ-45 x1			
EIDE	Mode	ATA 33			
	Channel	2 (Max. 4 devices)			
	Connector	One IDE connector for embedded 2.5" HDD			
PCI-to-PCI Bridge	Controller	Intel 21154	-	Intel 21154	Intel 21154
	System Bus	64-bit/33 MHz	-	64-bit/33 MHz	64-bit/33 MHz
Front I/O Interface	LAN	1			
	Serial	1 (RS-232, RJ-45 connector)			
Operating System	Compatibility	Windows 2000/NT 4.0/XP, Red Hat Linux 7.2, Sun Solaris 8.0			
	Controller	Winbond W83782D			
Hardware Monitor	Monitor	CPU temperature, 3.3 V/5 V/12 V, fan			
	Output	Interrupt, system reset, NMI			
Watchdog Timer	Interval	Programmable, 1 – 63 sec.			
	Site	1			
PMC	Interface	PCI Mezzanine (IEEE 1386), 32-bit/33 MHz			
	Signal	5 V/3.3 V compliant			
Miscellaneous	Solid State Disk	CompactFlash socket (optional) **			
	Real Time Clock	Built-in the South Bridge			
Power Requirement (Intel Pentium III 700 MHz)	Maximum	+5 V 2.5 A	+12 V < 270 mA	-12 V < 25 mA	3.3 V 2.5 A
	Temperature	Operating: 0 – 55 °C (32 – 131 °F), Non-Operating: -40 – 70 °C (-40 – 158 °F)			
Environment	Humidity	Non-Operating: 95 % @ 60 °C (non-condensing)			
	Vibration (5-500 Hz)	Operating: 1.0 Grms, Non-Operating: 2.0 G			

Specifications Cont.

Physical Characteristics	Dimensions (W x D)	233.35 x 160 mm (9.2" x 6.3"), 1-slot width			
	Weight	0.7 Kg (1.54 lb)			
Hot-swap Switch		N/A	Yes	Yes	Yes
Hot-swap LED		N/A	Yes	Yes	Yes
Compliance	PICMG 2.1, R1.0 Hot-Swap Specification	N/A	Yes	Yes	Yes
	PICMG 2.16, R1.0 Packet Switching Backplane Specification	N/A	Yes	Yes	Yes

* PCI-to-PCI bridge is transparent, drives up to 7 PCI masters

** CompactFlash socket is supported for special orders (Embedded HDD will not be supported).

Rear Transition Board

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3368B		RIO-3308-A	MIC-3039-B, MIC-3036-A/S2, MIC-3056A, MIC-3038A, MIC-3081A/B, MIC-3082A
MIC-3368C	MIC-3665-A	RIO-3308C-A	MIC-3038C
MIC-3368E	MIC-3665-B	RIO-3308C-A, RIO-3308S-A	MIC-3039-B, MIC-3036-A/S2, MIC-3056A, MIC-3038A/C/D, MIC-3041A, MIC-3042A, MIC-3081A/B*, MIC-3082A
MIC-3368E1			

* MIC-3081A doesn't support RIO-3308S-Ax

Recommended Configurations

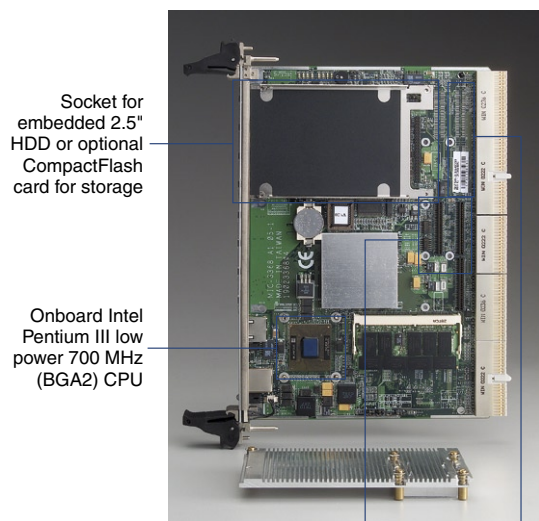
Part Number	Rear Panel						On-board Header							Slot Width
	SCSI	KB & Mouse	COM2	LAN	VGA	USB	IDE	FDD	COM1	USB	CF	PIM	Parallel	
RIO-3308-A	-	1	1	2	1	-	1	1	1	1	1	1*	1	1
RIO-3308C-A	-	1	1	2	1	1	2	1	1	1	1	-	1	1
RIO-3308S-A	1	1	1	2	1	1	2	1	1	1	1	-	1	1

* Optional for OEM/ODM (Please contact your local sales or distributors for details)

Ordering Information

Part Number	Front Panel I/O						Slot Width
	LAN	COM	PCI-to-PCI Bridge	PMC Site	Chipest		
MIC-3368B-A	1	1	1	1	Intel 440BX	1	
MIC-3368C-A	1	1	-	1	Intel 440GX	1	
MIC-3368E-A	1	1	1	1	Intel 440GX	1	
MIC-3368E1-A	1	1	1	1	Intel 440GX	1	

- Remark:
1. Dual PMC sites are also supported for special order (Embedded HDD or optional CompactFlash will not be supported).
 2. MIC-3368 series does not support media blade MIC-3960 because J3 is reserved for PICMG 2.16 design, this also includes MIC-3368B-A.
 3. The above part numbers do not include memory, please order separately.
 4. The MIC-3368C-A has the CompactPCI bridge removed. PICMG 2.16 can be used for inter-processor connectivity.
 5. The MIC-3368E and MIC-3368E1 models support PICMG 2.16 but will only function in System controller mode.

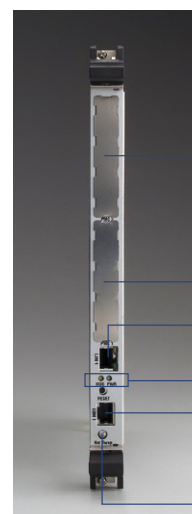


Socket for embedded 2.5" HDD or optional CompactFlash card for storage

Onboard Intel Pentium III low power 700 MHz (BGA2) CPU

One 32-bit PMC expansion site

2nd PMC site (must occupied 2.5" HDD/CompactFlash space) for optional



2nd PMC site (optional) for knock out

1st PMC site for knock out

10/100 Mbps LAN ports

LEDs for power, HDD

COM

LED for hot-swap (for MIC-3368E/E1)

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