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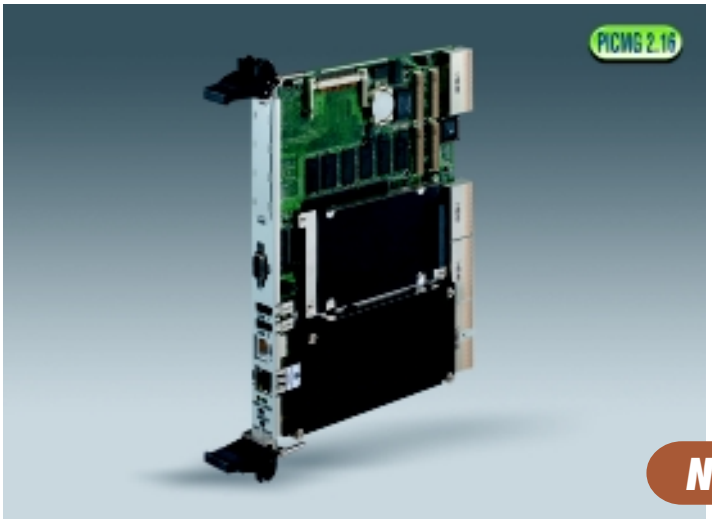
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MIC-3369

6U CompactPCI® Intel® Pentium® M Processor Single Board Computer with VGA/Dual Giga LAN/PMC



Features

- Intel® Pentium® M processor 1.6 GHz supports
- Dual Gigabit Ethernet on board
- Up to 2 GB (DDR-200) memory on board with ECC
- Intel® E7501 chipset
- One 64-bit/66 MHz PMC expansion slot
- PICMG® 2.16 compliant with Packet Switching Backplane Specification
- PICMG 2.9 compliant with System Management Specification
- Hot Swap Specification compliant (PICMG 2.1)
- On-board 2.5" HDD connector and CompactFlash socket
- Master/Drone mode selectable

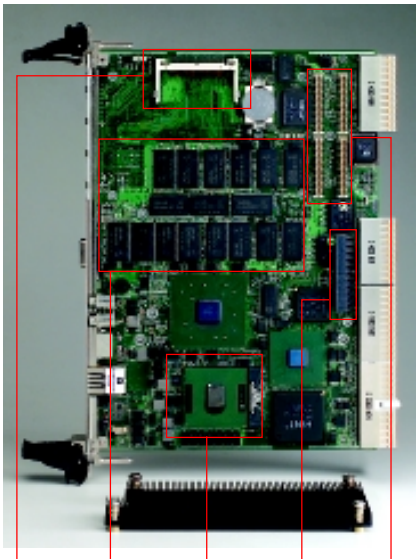
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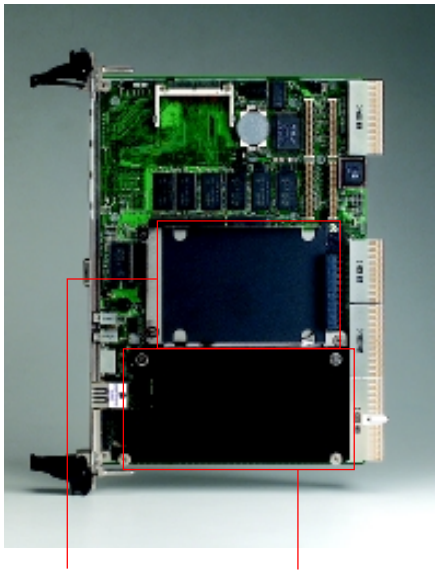
Introduction

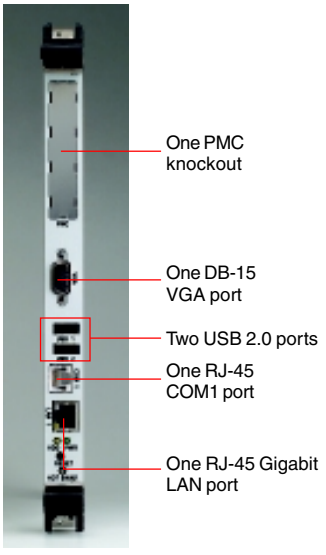
The MIC-3369 is the first CompactPCI server blade with the Intel® Pentium® M processor CPU on board to comply with CompactPCI Packet Switching Backplane (cPSB) systems. Supporting the PICMG 2.16 specification, it is an ideal platform for the emerging switch-fabric applications blade server, mission critical and computing intensive applications such as third-generation (3G) wireless, voice over Internet protocol (VoIP), networking, image processing, and other demanding telecom/data communication applications.

The new MIC-3369 has been optimized for the Intel® Pentium® M processor and Intel® E7501 Chipset. It represents the next step in high performance cPCI platforms, delivering compelling performance at 3.2 GB/s bandwidth across the 400 MHz system bus with a high performance, micro-architecture, and includes 32 KB Level 1 Instruction and data Caches, 1 MB Level 2 Advanced Transfer Cache, and up to 3.2 GB/s of bandwidth across dual high performance DDR memory channels with max 2 GB DDR 200 memory on-board. It also provides dual Gigabit Ethernets, and 3.2 GB/s of I/O bandwidth. Advantech is ready, with the MIC-3369 architecture to meet customer's high performance requirements for both CPUs and I/Os.

As the mission-critical demand increases in the next generation networking and telecommunication equipments, the MIC-3369 has been optimized to play as a master card in a cPCI system, it could also plug into a peripheral slot as a "drone mode" operating in stand-alone computer. The MIC-3369 is designed in complaince with PICMG 2.9 specification in cooperating with the remote system and platform management.







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Date of Publication: 2003-10-30

Specifications

Processor System	CPU	Intel® Pentium® M processor (fanless)			
	Speed	1.6 GHz (400 MHz FSB)			
	L2 Cache	1 MB on die			
	Chipset	Intel® E7501/ICH4			
	BIOS	Award 4 Mb Flash (Network booting/Console Redirect optional)			
Bus	Front Side Bus	400 MHz			
	PCI	64-bit/133 MHz (PCI-X support)			
Memory	Technology	DDR-200 SDRAM with ECC support			
	Max. Capacity	2 GB (optional)			
	Integrated	512 MB/1 GB/2 GB memory on board (No onboard SO-DIMM connector for upgradility)			
Graphic	Controller	ATI RageXL			
	VRAM	8 MB on board			
Ethernet	Interface	10/100/1000Base-TX			
	Controller	Intel® 82546EB x 1 (Dual GbE ports)			
	I/O Connector	RJ-45 x 1 (front)			
EIDE	Mode	ATA 33/66/100			
	Channel	2			
	Connector	One IDE connector and space reserved for embedded 2.5" HDD			
PCI-to-PCI Bridge	Interface	System/Drone mode capability			
	Controller	Hint HB6			
	Bus	PCI 64-bit/66 MHz			
Front I/O Interface	LAN	1			
	Serial (COM1)	1 (RS-232, RJ-45 connector)			
Operating System	Compatibility	Windows2000/NT 4. 0/XP, Red Hat Linux 8.0 and 9.0 VxWorks			
Hardware Monitor	Controller	Winbond W83782D			
	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)			
	Signal	+5 V/+3.3 V compliant			
Miscellaneous	Solid State Disk	CompactFlash socket			
	LEDs	HDD, Power, hot swap			
	USB (2.0)	2 channels			
	Real Time Clock	Built-in the South Bridge			
Power Requirement (Intel® Pentium® M 1.6 GHz)	Voltage	+3.3 V	+5 V	+12 V	-12 V
	Maximum	5.18 A	4.19 A	38 mA	<25 mA
Environment		Operating			Non-Operating
	Temperature	0 ~ 55° C (32 ~ 131° F)			-40 ~ 70° C (-40 ~ 158° F)
	Humidity				95 % @ 60° C (non-condensing)
	Shock	20 G			50 G
	Vibration (5-500 Hz)	1.5 Grms			2.0 Grms
	Altitude	60m below sea level to 4000m above sea level			
Physical	Dimensions	233.35 x 160 mm (9.2" x 6.3"), 1-slot width			
	Weight	0.8 kg (1.76 lb)			
Compliance	Standard	PICMG 2.16, R1.0 Packet Switching Backplane Specification PICMG 2.0, R3.0 CompactPCI Specification PICMG 2.9, R1.0 System Management Specification PICMG 2.1, R2.0 Hot-Swap Specification			

Recommended Configurations

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3369A	MIC-3662D, MIC-3661D	RIO-3309C-A	MIC-3036, MIC-3056A, MIC-3038A, MIC-3038C, MIC-3041B, MIC-3081A, MIC-3081B

Rear Transition Board

Part Number	Rear Panel						On-board Header / Socket / Connector						Slot Width
	KB & Mouse	COM2*	GbE LAN	VGA	USB	10-BaseT LAN**	IDE	FDD	COM1	USB	PRT	Conn.	
RIO-3309C-A	1	1	2	1	1	1	1	1	1	1	1	J3/J5	1

* Support RS-232/422/485 selectable
** Optional for 3rd LAN from MIC-3369 but occupies the I/O port for COM2.

Ordering Information

Part Number	Front Panel I/O					On Board Main Features				
	LAN	COM	PMC	USB	VGA	CPU	Memory	EIDE Channel	CF socket	Slot Width
MIC-3369A-M0 **	1	1	1	2	1	--	512 MB	2.5"HDD	1	1
MIC-3369A-M1 *	1	1	1	2	1	--	1 GB	2.5"HDD	1	1
MIC-3369A-M2 **	1	1	1	2	1	--	2 GB	2.5"HDD	1	1

* Please order Rear Transition Board (see above table) with MIC-3369 for rear I/O access.
** Please contact your local distributor for MIC-3369A-M0/M2, not for standard ordering process.

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