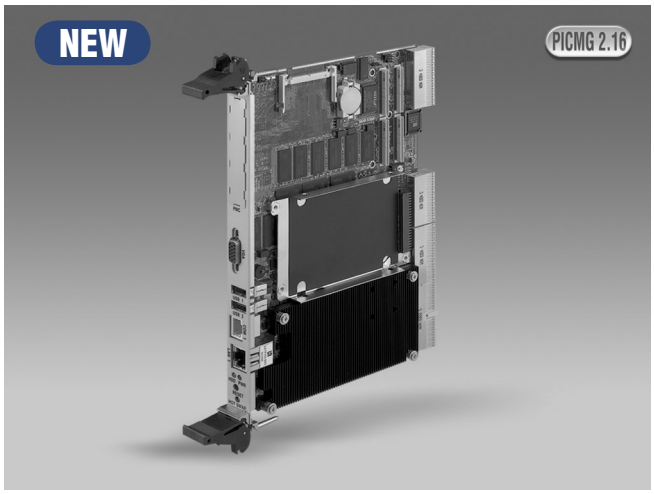
MIC-3369

6U CompactPCI® Intel® Pentium® M Processor Board with VGA/Dual Gigabit LAN/PMC



Features

- Supports Intel Pentium M 745 processor @ 1.8 GHz/2 MB L2 cache and Pentium M processor @ 1.6GHz/1MB L2 cache
- Supports Dual Gigabit LANs
- 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 mode selectable

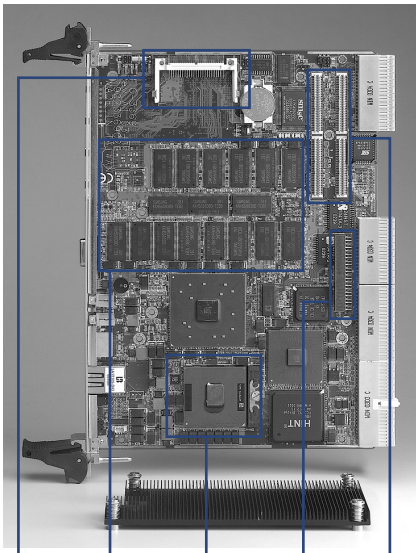
CE FCC

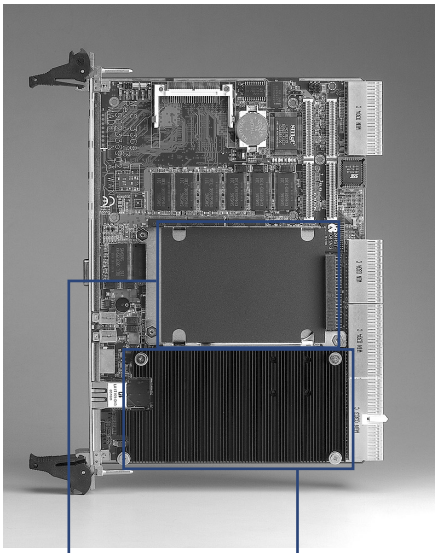
Introduction

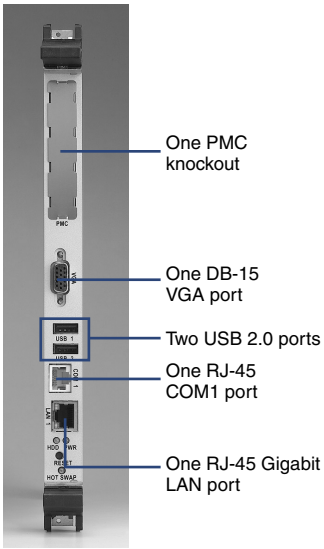
The MIC-3369 is the first CompactPCI server blade with the Intel® Pentium® M processor CPU support to comply with CompactPCI Packet Switching Backplane (cPSB) systems. Supporting the PICMG 2.16 specification, it is an ideal platform for the emerging switch-fabric applications blade server, mission critical 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 front side bus with a high performance, micro-architecture, and includes 32 KB level 1 instruction and data caches, 1MB/2MB 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 ECC 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 equipment, 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 compliance with PICMG 2.9 specification in cooperating with the remote system and platform management.







Last Updated: Sep-07-04

Specifications

Processor System	CPU	Intel® Pentium® M processor (fanless)			
	Speed	1.6GHz or 745 1.8GHz (both 400MHz FSB)			
	L2 Cache	1MB on 1.6GHz CPU die or 2MB on 745 1.8GHz CPU 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 x1 (Dual GbE ports)			
	I/O Connector	RJ-45 x1 (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	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 2.0, R3.0 CompactPCI Specification PICMG 2.1, R2.0 Hot-Swap Specification PICMG 2.9, R1.0 System Management Specification PICMG 2.16, R1.0 Packet Switching Backplane Specification			

Recommended Configurations

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3369A	MIC-3662D, MIC-3661D	RIO-3309C-A	MIC-3036-A, MIC-3036-S2, MIC-3039-B, MIC-3056A, MIC-3038A, MIC-3038C, MIC-3041B, MIC-3081, MIC-3082A

Rear Transition Board

Part Number	Rear Panel							On-board Header / Socket / Connector							Slot Width
	KB & Mouse	COM2*	GbE LAN	VGA	USB	10/100 LAN**	SCSI	IDE	FDD	SCSI	COM1	USB	PRT	Conn.	
RIO-3309C-A	1	1	2	1	1	1	--	1	1	--	1	1	1	J3/J5	1
RIO-3309S-A1	1	1	2	1	1	1	--	1	1	1	1	1	1	J1/J2/J3/J5	1
RIO-3309S-A2	1	1	2	1	1	1	1	1	1	--	1	1	1	J1/J2/J3/J5	1

* Support RS-232/422/485 selectable
** Optional for 3rd LAN from MIC-3369A 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

* Check out the "Rev" mark on the box label for different Pentium M processor supporting. "Rev.Bx" supports 1MB/2MB L2 cache Pentium M processor. "Rev.Ax" supports 1MB L2 cache Pentium M processor only.