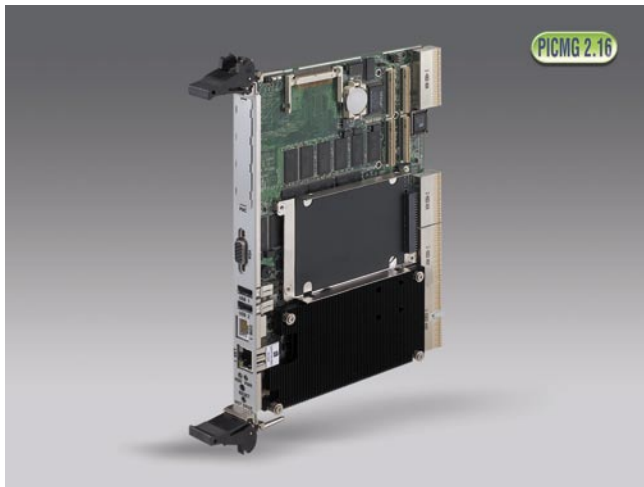


# MIC-3369C

## 6U CompactPCI® Intel® Pentium® M Processor Board with VGA/Dual Gigabit LAN/PMC (PICMG 2.16)



### Features

- Supports Intel® Pentium® M 760 processor @ 2.0 GHz/2 MB L2 cache
- Supports Front Side Bus 400/533 MHz Pentium M processor
- Supports Dual Gigabit LAN's on the rear
- Up to 2 GB (DDR 200/266 MHz) onboard memory with ECC
- PICMG® 2.16 (CompactPCI® Packet Switching Backplane) compliance
- PICMG 2.1 (CompactPCI Hot Swap) compliance
- Onboard 2.5" HDD PMC connector and CompactFlash socket

### Introduction

The MIC-3369C is a highly integrated and cost effective CompactPCI single-board computer based on the Intel Pentium M processor. It is an ideal application blade for integration into products where high-performance and low-power consumption are key requirements. The MIC-3369C has been optimized for the Intel Pentium M processor and Intel E7501 chipset which deliver a compelling 3.2 GB/s bandwidth across a 400/533 MHz front side bus. The Pentium M incorporates 32 KB of level 1 cache, 1 MB/2 MB of level 2 advanced transfer cache and up to 3.2 GB/s of bandwidth across dual data rate memory channels. The MIC-3369C supports up to 2 GB of ECC DDR-266 an onboard memory.

With performance in mind, the MIC-3369C design makes extensive use of Intel's latest I/O controller hub technology and provides 64-bit data buses throughput. The onboard dual Gigabit Ethernet controller is connected via a 64-bit/133 MHz PCI-X bus for maximum sustained packet throughput.

In addition to a full array of industry standard I/O features including onboard 2.5" hard disk drive and two USB ports, the MIC-3369C also provides one 64-bit/66 MHz PMC site for onboard I/O expansion, making it ready to meet the most flexible and demanding I/O processing needs.

The MIC-3369C can be used in either a system slot or peripheral slot, making it an ideal choice for applications requiring PICMG 2.16 CompactPCI Packet Switching Backplane support for Gigabit speed switched-fabric interconnection between blades. The MIC-3369C 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

Processor System	CPU (CPU not included)	Intel Pentium M processor (Socket 479)
	Speed	up to 2.0 GHz
	L2 Cache	1 MB on 1.6 GHz CPU or 2 MB on 2.0 GHz CPU
	Chipset	Intel E7501/ICH4
	BIOS	Award 4 Mbit Flash (By request : Network booting/Console redirect)
Bus	Front Side Bus	400/533 MHz
	PCI	64-bit/133 MHz (PCI-X support)
Memory	Technology	DDR 266 MHz SDRAM with ECC support
	Max. Capacity	2 GB
	Integrated	512 MB/1 GB/2 GB memory on board
Graphic	Controller	ATI RageXL
	VRAM	8 MB on board
Ethernet	Interface	10/100/1000Base-TX
	Controller	Intel 82546GB (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	PLX6254
	Bus	64-bit/66 MHz
Front I/O Interface	PMC	1
	VGA	1
	USB	2 (USB 2.0)
	Serial (COM1)	1 (RS-232, RJ-45 connector)
	LAN	1
Operating System	Compatibility	Windows® XP/2000/NT 4.0, Red Hat Linux 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.

## Specifications Cont.

PMC	Site	1			
	Interface	64-bit/66 MHz PCI Mezzanine (IEEE1386.1)			
	Signal	+5 V/+3.3 V compliant			
Miscellaneous	Solid State Disk	CompactFlash socket			
	LED Indicator	HDD, power, hot swap			
	USB (2.0)	2 channels			
	Real Time Clock	Built-in			
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 ~ 65 °C (32 ~ 149 °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 G
	Altitude	60m below sea level to 4000m above sea level			
Physical Characteristics	Dimensions (W x D)	233.35 x 160 mm (9.2" x 6.3"), 1-slot width			
	Weight	0.8 kg (1.76 lb)			
Compliance	PICMG 2.0 R3.0 CompactPCI Specification PICMG 2.1 R2.0 CompactPCI Hot Swap Specification PICMG 2.16 R1.0 CompactPCI Packet Switching Backplane Specification				

## Recommended Configurations

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3369C-MxE	MIC-3665-AE, MIC-3665-BE	RIO-3309C-AE, RIO-3309S-AxE	MIC-3039-BE, MIC-3056A/4-2RE, MIC-3038A/8-4RE, MIC-3041A/6-4RE, MIC-3041B/6-4RE, MIC-3042AE, MIC-3042A-AE, MIC-3042A-DE, MIC-3042BE, MIC-3042B-AE, MIC-3042B-DE, MIC-3043AE, MIC-3043A-BE, MIC-3043BE, MIC-3043B-BE, MIC-3043CE, MIC-3043C-BE, MIC-3081B/8-10AE, MIC-3081B-8/10RE

## Rear Transition Board

Part Number	Rear Panel							Onboard 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-AE	1	1	2	1	1	1	-	1	1	-	1	1	1	J3/J5	1
RIO-3309S-A1E	1	1	2	1	1	1	-	1	1	1	1	1	1	J1/J2/ J3/J5	1
RIO-3309S-A2E	1	1	2	1	1	1	1	1	1	-	1	1	1	J1/J2/ J3/J5	1

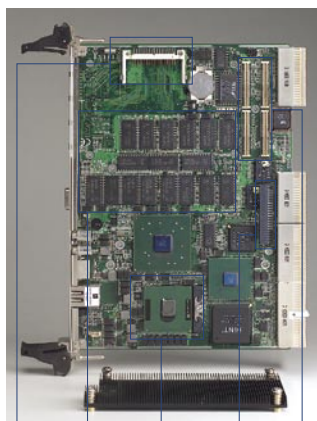
\* Supports RS-232/422/485 selectable

\*\* Option for 3rd LAN from MIC-3369C but occupies the I/O port for COM2.

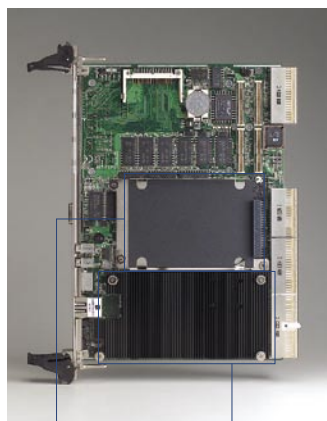
## Ordering Information

Part Number	Front Panel I/O							Onboard Header/Socket/Connector					Slot Width
	CPU Support	LAN	COM	PMC	USB	VGA	CPU	Memory	IDE Channel	CF Socket			
MIC-3369C-M0E	1/2 MB L2	1	1	1	2	1	-	512 MB	2.5" HDD	1	1		
MIC-3369C-M1E	1/2 MB L2	1	1	1	2	1	-	1 GB	2.5" HDD	1	1		
MIC-3369C-M2E	1/2 MB L2	1	1	1	2	1	-	2 GB	2.5" HDD	1	1		

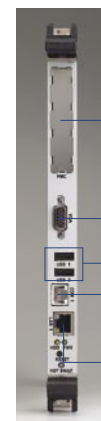
Note: The above part numbers do not include the CPU, please order separately.



One CompactFlash socket  
u-FCPGA socket  
Onboard memory  
One 64-bit/66 MHz PMC connector  
One 2.5" IDE socket



One 2.5" HDD bay  
One passive CPU heatsink



One PMC knockout  
One DB-15 VGA port  
Two USB 2.0 ports  
One RJ-45 COM1 port  
One RJ-45 Gigabit LAN port