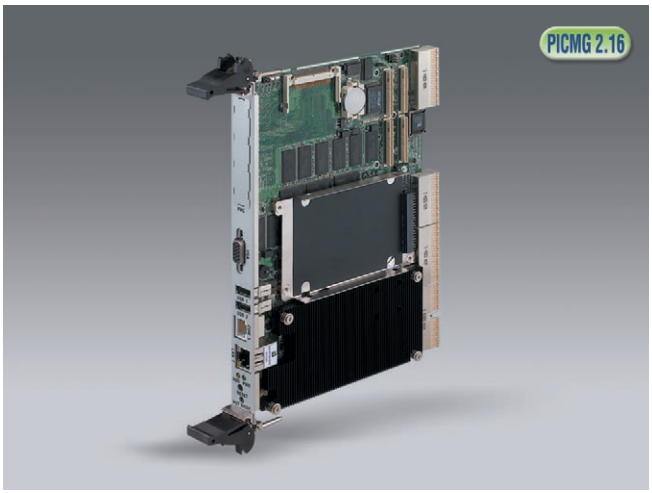
MIC-3369C

6U CompactPCI® Intel® Pentium® M Processor-based Board with VGA/Dual PCI GbE/PMC (PICMG 2.16)



Features

- Supports Intel® Pentium® M 760 processor (2.0 GHz, 2 MB L2 cache)
- Supports 400/533 MHz FSB
- Supports dual Gigabit LAN ports on the rear
- Up to 2 GB (DDR 200/266 MHz) onboard memory with ECC
- PICMG 2.16 R1.0 CompactPCI Packet Switching Backplane Specification compliant
- PICMG 2.1 R2.0 CompactPCI Hot Swap Specification compliant
- Onboard 2.5" HDD bay, 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 performance and low power consumption are key requirements. The Intel E7501 chipset delivers 4.3 GB/s bandwidth across a 400/533 MHz front side bus. The Pentium M processor has 32 KB of level 1 cache, 1 MB/2 MB of level 2 advanced transfer cache and up to 4.3 GB/s of bandwidth across dual data rate memory channels. The MIC-3369C supports up to 2 GB of ECC DDR 266 onboard memory.

The MIC-3369C uses Intel's I/O controller hub technology to provide 64-bit data buses. The onboard dual Gigabit Ethernet controller is connected via a 64-bit / 133 MHz PCI-X bus for maximum sustained packet throughput. A full array of industry standard I/O features, onboard 2.5" hard disk drive bay and a 64-bit/66 MHz PMC site enables the MIC-3369C 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 switched-fabric interconnection between blades. The MIC-3369C is perfect for mission critical telecom and data communication applications such as 3G wireless infrastructure, Voice-over-IP, media gateways, soft switches and triple-play server clusters.

Specifications

Processor System	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 (network booting/console redirection on request)
Bus	Front Side Bus	400/533 MHz
	PCI	64-bit/133 MHz (PCI-X support)
Memory	Technology	DDR 200/266 MHz SDRAM with ECC support
	Max. Capacity	2 GB
	Integrated	512 MB / 1 GB / 2 GB memory on board (no DIMM socket)
Graphic	Controller	ATI RageXL™
	VRAM	8 MB dedicated
Ethernet	Interface	10/100/1000Base-TX Ethernet
	Controller	Intel 82546GB (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	Universal (System/Peripheral 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	System reset
	Interval	Programmable, 0 ~ 255 sec.
PMC	Site	1
	Interface	64-bit/66 MHz PCI Mezzanine (IEEE1386.1)
	Signal	+5 V/+3.3 V compliant

Specifications Cont.

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	60 m below sea level to 4000 m above			
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-B, MIC-3056, MIC-3038, MIC-3041, MIC-3042, MIC-3043, MIC-3081B, CP-150 series

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

* RS-232/422/485 selectable

** Optional 3rd LAN port occupies the rear COM2 port

Ordering Information

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