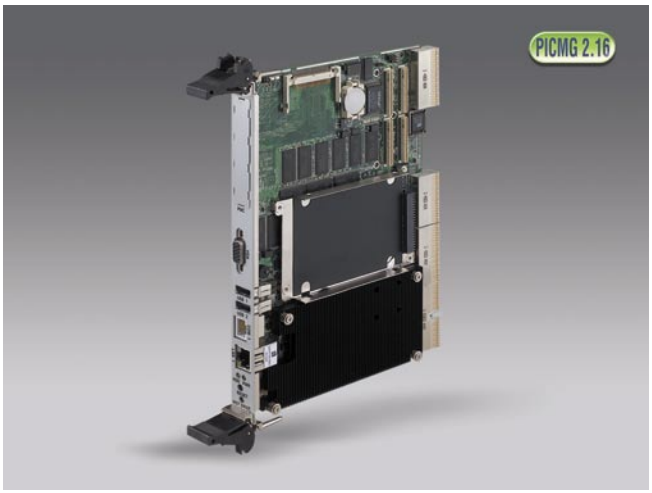
MIC-3369C

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				
	CPU Support	LAN	COM	PMC	USB	VGA	CPU	Memory	IDE Channel	CF Socket	Slot Width
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.

