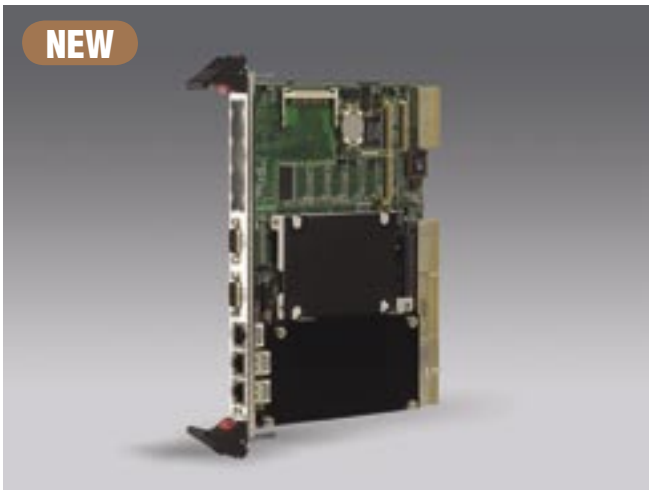
MIC-3369F

6U CompactPCI Intel® Pentium® M Firewall Solution Processor Board



CE FCC

Features

- Supports Intel® Pentium® M processor (Socket 479)
- Three Ethernet ports on board (dual Gigabit LANs, one 10/100 Fast Ethernet)
- Two DB9 COM1 and COM2 ports on the front, support console redirection
- Up to 2 GB (DDR-200/266) memory on board with ECC
- Intel E7501 chipset supports 400/533 MHz FSB
- One 64-bit/66 MHz PMC expansion slot
- PICMG® 2.16 compliant with Packet Switched Backplane Specification
- PICMG 2.1 Specification (Hot Swap) compliant
- On-board 2.5" HDD connector and Compact Flash Socket

Introduction

The MIC-3369F is specifically designed for secure Internet connectivity. This highly-integrated and cost-effective CompactPCI single-board computer is based on the Intel Pentium M processor. The MIC-3369F uses a new microarchitecture to meet the current and future demands of high-performance, low-power embedded computing, making it ideal for medium-to-large enterprise communications applications, transaction terminals, and interactive client applications. The MIC-3369F 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-3369F supports up to 2 GB of ECC DDR-266 on-board memory. The system supports Compact Flash for use in installing OS and Internet security applications.

There three LAN ports on board. The fast Ethernet port can also be used for LAN management. The dual Gigabit Ethernet controller is connected via a 64-bit/133 MHz PCI-X bus for maximum sustained packet throughput. The MIC-3369F also provides one 64-bit/100 MHz PMC site for on-board I/O expansion making it flexible enough to meet the most demanding I/O processing needs. We strongly recommend using the PMC card MIC-3665 which provides a dual Gigabit Ethernet interface controller port. With the addition of the MIC-3665 PMC card, the MIC-3369F is an ideal choice for applications requiring PICMG 2.16 Packet Switching Backplane support for Gigabit speed switched-fabric interconnection between blades.

Specifications

Processor System	CPU (not included)	Intel Pentium M processor (Socket 479)
	Max. Speed	1.6 GHz or higher, based on Intel roadmap
	Chipset	Intel E7501/ICH4
	BIOS	Award 4 Mb Flash (Network booting/console redirect)
Bus	Front Side Bus	400/533 MHz
	PCI	Up to 64-bit/133 MHz (PCI-X support)
Memory	Technology	DDR-266 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
	Resolution	Up to 1600 x 1200 64 k color/75 Hz
Ethernet	Interface	10/100/1000Base-TX Gigabit Ethernet, 10/100 Fast Ethernet
	Controller	Intel 82546 GB x 2 (dual Gigabit Ethernet ports), Intel 82562ET
	I/O Connector	RJ-45 x 3 (front)
EIDE	Mode	PIO mode 4, DMA 33/66/100 mode
	Channels	2
	Connector	One IDE connector and space reserved for embedded 2.5" HDD
Bridge	Bus	PCI 64-bit/66 MHz
	Interface	System/Drone mode capability
I/O Interface	Serial (COM1, COM2)	DB9 x 2 (front)
Operating System	Compatibility	Windows XP/2000/NT 4.0, Red Hat Linux Enterprise
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	PCI Mezzanine (IEEE1386.1 compliant)			
	Signal	+5 V/+3.3 V compliant			
Miscellaneous	Solid State Disk	One CompactFlash Socket			
	LEDs	HDD, Power, Hot Swap			
	Real Time Clock	Built into the South Bridge			
Power Requirement (Banias 1.6 GHz)	Voltage	+3.3 V	+5 V	+12 V	- 12V
	Maximum	2.5 A	10 A	<100 mA	< 25 mA
Physical Characteristics	Dimensions	233.35 x 160 mm (9.19" x 6.3"), 1-slot width			
	Weight	0.8 kg (1.76 lb)			
Environment		Operating		Non-Operating	
	Temperature	0 ~ 55° C (32 ~ 122° F)		-40 ~ 70° C (-40 ~ 140° F)	
	Humidity	-		95 % @ 60° C (non-condensing)	
	Shock	20 G		50 G	
	Vibration (5-500 Hz)	1.5 Grms		2.0 Grms	
	Altitude	60 m below sea level to 4000 m above sea level			
Regulatory	Conformance	FCC Class A, CE			
	NEBS Level 3	Design for GR-63-core & GR-1089-core			
Compliance	Standard	PICMG 2.0, R3.0 CompactPCI SpecificationPICMG 2.1, R2.0 Hot-Swap SpecificationPICMG 2.16, R1.0 Packet Switching Backplane Specification			

Rear Transition Board

Model	Rear Panel					On-board header/Socket/Connector								
	KB & Mouse	COM2	GbE LAN	VGA	USB	IDE	FDD	COM1	SCSI	CF	PRT	USB	Slot Width	Conn.
RIO-3309C	1	1	1	1	1	2	1	1	NA	1	1	1	1	J3/J5
RIO-3309S	1	1	1	1	1	2	1	1	1*	1	1	1	1	J1/J2J3/J5

RIO cards don't support printer ports or floppy drives.

* The console direction function doesn't support when you choose RIO-3309S with SCSI controller (Ultra 320) on board.

Recommended Configurations

CPU Board	PMC Module	Enclosure
MIC-3369F	MIC-3665-A, MIC-3665-B	MIC-3036-S2, MIC-3039-B, MIC-3056A

Ordering Information

Model Number	Front Panel I/O					On-board Main Features			
	LAN	COM	PMC	USB	VGA	CPU	Memory	EIDE Channel	Slot Width
MIC-3369F	3	2	1	NA	NA	NA	512 MB	2.5" HDD	1

* Please order Rear Transition Board (see above table) with MIC-3369F for rear I/O access.