# **MIC-3368**

## 6U CompactPCI® Low Power Pentium® III Processor Board with VGA/Dual LAN/PMC/ Embedded HDD



#### **Features**

- Low power Intel® Pentium® III 700 MHz (BGA2) processor built in
- Intel 440GX chipset
- PICMG 2.16 compliant with Packet Switching Backplane Specification
- Full Hot-Swap Specification compliance (PICMG® 2.1, R2.0)
- Up to 1 GB ECC SO-DIMM SDRAM memory
- One 32-bit PMC expansion site
- Dual Fast 10/100 Mbps Ethernet on board with rear I/O
- Embedded 2.5" HDD or optional CompactFlash

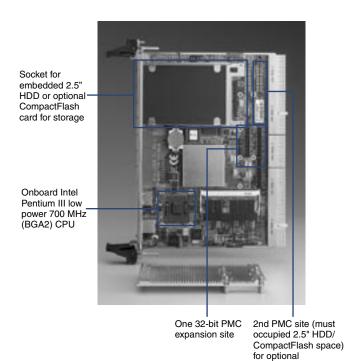
## **CEFCC**

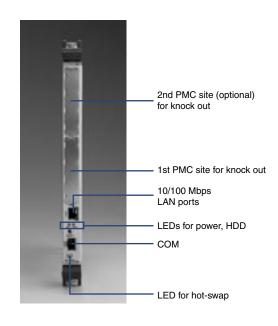
#### Introduction

The MIC-3368 series CompactPCI low power CPU board is an ultra-high density design built with a high performance Intel 700 MHz Pentium III processor and upgradeable SODIMM expansion up to 1 GB as well as an integrated 2.5" HDD on board. For I/O expansion, it comes with one built-in standard PMC site for various applications.

With fully integrated features, the MIC-3368 acts as a powerful master system CPU board, as well as a cPCI server blade with PICMG 2.16 compliance, which allows integration with most third-party products.

The MIC-3368 was designed with high availability features like low power dissipation, onboard CPU, passive cooling, dual LANs, and an IPMI controller. It acts as a master operating center for 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 which need a clustered multiprocessing solution to increase over-all system performance.





Specifications

<b>Specification</b>	113	MIC-3368	MIC-3368B	MIC-3368C	MIC-3368E	MIC-3368E1					
	CPU	Intel Pentium III low po	ower (fanless)	•		•					
	Max. Speed	700 MHz (100 MHz FSB)									
Processor System	L2 Cache	256 KB 1 GHz (133 MHz									
	Chipset	Intel 440GX	Intel 440BX	Intel 440GX	Intel 440GX	Intel 400GX					
	BIOS	Award 2 Mb Flash (net		micr Frount	mior rioux	Intel Todax					
	Front Side Bus	66/100 MHz	morn booting optional)								
Bus	PCI	64-bit/33 MHz									
SCSI Controller Support	1 01	04-DII/33 WII IZ			Rear I/O	Rear I/O					
Sosi controller support	Tachnology	PC-100 SDRAM with E	CC cupport		near 1/0	neal I/U					
Momon	Technology Max. Capacity	1 GB	512 MB	1 GB	1 GB	1 GB					
Memory	Socket	1 GB   512 MB   1 GB   1 GB									
		69030									
Graphic	Controller VRAM	4 MB SDRAM									
· ·											
C41	Interface	10/100Base-TX									
Ethernet	Controller	Intel 82559 x2									
	Connector	RJ-45 x1									
FIDE	Mode	ATA 33									
EIDE	Channel	2 (Max. 4 devices)									
	Connector	One IDE connector for			T	T					
PCI-to-PCI Bridge	Controller	Intel 21154	Intel 21154		Intel 21154	Intel 21154					
	System Bus	64-bit/33 MHz	64-bit/33 MHz		64-bit/33 MHz	64-bit/33 MHz					
Front I/O Interface	LAN	11									
	Serial	1 (RS-232, RJ-45 conr									
Operating System	Compatibility		XP, Red Hat Linux 7.2,	Sun Solaris 8.0							
Hardware Monitor	Controller	Winbond W83782D									
That aware internet	Monitor	CPU temperature, 3.3	V/5 V/12 V, fan								
Watchdog Timer	Output	Interrupt, system reset									
Waterlady Tillion	Interval	Programmable, 1 ~ 63 sec.									
	Site	1									
PMC	Interface	PCI Mezzanine (IEEE 1386), 32-bit/33 MHz									
	Signal	5 V/3.3 V compliant									
Miscellaneous	Solid State Disk	CompactFlash socket (optional) **									
	Real Time Clock	Built-in the South Bridge									
Power Requirement	Maximum	+3.3 V	+5 V	+12 V	-12 V						
(Intel Pentium III 700 MHz)		2.5 A	2.5 A	< 270 mA	< 25 mA						
	Temperature	Operating: 0 ~ 55 °C (	32 ~ 131 °F)								
Environment	Humidity	Non-Operating: -40 ~ 70 °C (-40 ~ 158 °F) Non-Operating: 95 % @ 60 °C (non-condensing)									
	Vibration (5-500 Hz)	Operating: 1.0 Grms, Non-Operating: 2.0 G									
Physical	Dimensions (W x D)	233.35 x 160 mm (9.2" x 6.3"), 1-slot width									
_ ·	Weight	0.7 Kg (1.54 lb)									
Hot-swap Switch		N/A	N/A	Yes	Yes	Yes					
Hot-swap LED		N/A	N/A	Yes	Yes	Yes					
Compliance	PICMG 2.1, R1.0 Hot-Swap Specification PICMG 2.9, R1.0 System Management Specification PICMG 2.16, R1.0 Packet Switching Backplane Specification	N/A N/A N/A	N/A N/A N/A	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes					
	FIGURE 2.10, RT.0 Packet Switching backplane Specification	IWA	IV/M	162	162	169					

# **Recommended Configurations**

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3368 MIC-3368B		RIO-3308-A	MIC-3036-A, MIC-3039, MIC-3056A, MIC-3038A, MIC-3041A, MIC-3081A, MIC-3082A
MIC-3368C	MIC-3662D, MIC-3661D	RIO-3308C-A	MIC-3039, MIC-3038C
MIC-3368E MIC-3368E1		RIO-3308C-A, RIO-3308S-A	MIC-3036-A, MIC-3039, MIC-3056A, MIC-3038A, MIC-3041A, MIC-3081A, MIC-3082A

### **Rear Transition Board**

Part Number	Rear Panel							On-board Header						Slot Width
ran number	SCSI	KB & Mouse	COM2	LAN	VGA	USB	IDE	FDD	COM1	USB	CF	PIM	Parallel	SIUL WIULII
RIO-3308-A		1	1	2	1		2	1	1	1	1	1*	1	1
RIO-3308C-A		1	1	2	1	1	2	1	1	1	1		1	1
RIO-3308S-A	1	1	1	2	1	1	2	1	1	1	1		1	1

<sup>\*</sup> Optional for OEM/ODM (Please contact your local sales or distributors for details)

## **Ordering Information**

Part Number		Front Panel I/O										
	LAN	СОМ	PCI-to-PCI Bridge	PMC Site	Chipest	Slot Width						
MIC-3368-A	1	1	1	1	Intel 440GX	1						
MIC-3368B-A	1	1	1	1	Intel 440BX	1						
MIC-3368C-A	1	1		1	Intel 440GX	1						
MIC-3368E-A	1	1	1	1	Intel 440GX	1						
MIC-3368E1-A	1	1	1	1	Intel 440GX	1						

Remark:

- 1. Dual PMC sites are also supported for special order (Embedded HDD or optional CompactFlash will not be supported).
  2. MIC-3368 series does not support media blade MIC-3960 due to J3 reserved for PICMG 2.16 design, even MIC-3368-A and MIC-3368B-A.

PCI-to-PCI bridge is transparent, drives up to 7 PCI masters
 \*\* CompactFlash socket is supported for special orders (Embedded HDD will not be supported).

# **MIC-3377**

## 6U CompactPCI® Socket 370 Pentium® III/ Celeron® Processor Board with VGA/Dual LAN



#### **Features**

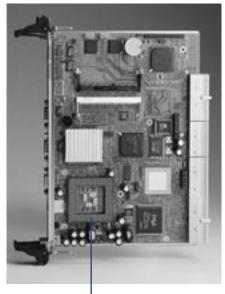
- Socket 370 Intel® Pentium® III/Celeron® processor
- Intel 440BX chipset
- Up to 512 MB SO-DIMM SDRAM memory
- Dual 10/100 Mbps LAN ports
- Fanless heat sink

## **CEFCC**

#### Introduction

The MIC-3377 is a 6U-high CompactPCI master CPU board that accepts an Intel Pentium III or Celeron processor with 370-pin FC-PGA package. The Pentium III/Celeron processor incorporates a 256 KB/128 KB on-die L2 Cache. The L2 cache implements the new advanced transfer cache architecture with 256-bit wide bus and runs at the full speed of the processor core. The MIC-3377 is well suited for demanding mission-critical CompactPCI applications.

Fanless heat sink with space-saving design

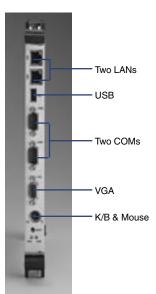


Socket 370 Pentium III/Celeron CPU

Two PCI-to-PCI bridges drive up to 14 Single PCI-to-PCI bridge drives bus master PCI slots (MIC-3377D/M) up to 7 bus master PCI slots



Onboard I/Os on front panel



# **Specifications**

	CPU	Intel Pentium III	Intel Celeron							
	Max. Speed	1 GHz (100 MHz FSB)	733 MHz (66 MHz FSB)							
Processor System	L2 Cache	256 KB	128 KB							
	Chipset	Intel 440BX	•							
	BIOS	Award 2 Mb Flash								
Bus	Front Side Bus	66/100 MHz								
bus	PCI	32-bit/33 MHz								
	Technology	PC-100 SDRAM with ECC support								
Memory	Max. Capacity	512 MB								
-	Socket	144-pin SO-DIMM x2								
Onembie	Controller	69000								
Graphic	VRAM	2 MB SDRAM								
	Interface	10/100Base-TX								
Ethernet	Controller	Intel 82559 x2								
	Connector	RJ-45 x2								
LIDE	Mode	ATA 33								
EIDE	Channel	2 (Max. 4 devices)								
DOLLA DOLDANA	Controller	Intel 21150	Intel 21150							
PCI-to-PCI Bridge	System Bus	32-bit/33 MHz								
	LAN	2	2							
	USB	1 (USB 1.0 compliant)	1 (USB 1.0 compliant)							
Front I/O Interface	Serial	2 (RS-232, 16C550 compatible)	2 (RS-232, 16C550 compatible)							
	PS/2	1	1							
	VGA	1								
Operating System	Compatibility	Windows 2000/NT 4.0/XP, Red Hat Linux 7.0, S	un Solaris 8							
Matabalan Tinsan	Output	System reset								
Watchdog Timer	Interval	Programmable, 1 ~ 63 sec.								
Davisa Damiinamaant	Manipular (Dontings III, 050 MILE)	+3.3 V +5 V	+12 V							
Power Requirement	Maximum (Pentium III, 850 MHz)	2.5 A 2.1 A	640 mA							
		Operating	Non-Operating							
Facilities	Temperature	0 ~ 50 °C (32 ~ 122 °F)	-40 ~ 60 °C (-40 ~ 140 °F)							
Environment	Humidity	′	95 % @ 60 °C, non-condensing							
	Vibration (5-500 Hz)	1.0 Grms	2.0 G							
Discolaria	Dimensions (W x D)	233.35 x 160 mm (9.2" x 6.3"), 1-slot width								
Physical	Weight	0.8 Kg (1.76 lb)								
Compliance	Standard	PICMG® 2.0, R3.0 CompactPCI Specification								
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## **Recommended Configurations**

CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3377M			MIC-3037, MIC-3039, MIC-3036, MIC-3056, MIC-3041A, MIC-3038A/B, MIC-3081
MIC-3377D/M		RIO-3301-A	MIC-3031

## **Rear Transition Board**

		Rear Panel I/O							On-board Header						
Part Number	Kevboard	Mouse	COM	USB	LAN	VGA	СОМ	SCSI	IDE**		FDD	CE Sookot	2.5" HDD Carrier	Slot Width	
	Keyboaru	Monse	COIVI		LAN	VGA	COIN		40-pin	44-pin	רטט	CF SUCKEL	2.3 HDD Gaillei		
RIO-3301-A	1	1	1				1		2	1	1	1	Optional	1	
RIO-3302-A	1	1	2	1	2	1			2	1	1	1	Optional	1	
RIO-3302S-A	1	1	2	1	2	1		1*	2	1	1	1	Optional	1	

## **Ordering Information**

Part Number	LAN	VGA	СОМ	USB	PCI-to-PCI Bridge	Slot Width
MIC-3377/M-A	2	1	2	1	1	1
MIC-3377D/M-A*	2	1	2	1	2	1

<sup>\*</sup> MIC-3377D only can be used with RIO-3301 in MIC-3031/14-12R enclosure

<sup>\*</sup> SCSI chipset (Adaptec 7892) on board.
\*\* The 40-pin and 44-pin connectors share the same channel; user can only use one of these two connectors.