

MIC-3359

6U CompactPCI® Intel® Pentium® 4 & Mobile Intel® Pentium® 4 Processor-M Board with VGA/Dual LAN

NEW



Features

- Supports high-performance Intel® Pentium® 4 Processor up to 2.8 GHz & Mobile Intel® Pentium® 4 Processor-M up to 2.5 GHz and above (u-FCPGA, Socket 478)
- Intel® 845GV chipset supports 400/533 MHz FSB
- 6U 8HP form factor
- Intel® 82562ET, 82551ER 10/100 (82540EM) Gigabit Ethernet combinations available
- 2 DDR DIMM slots support up to 2 GB memory
- Pericom PI7C8150MA 32-bit/33 MHz PCI-to-PCI bridge
- CompactPCI® Core Specification, PICMG® 2.0 R3.0
- Audio Module - Mic-in, Line-in, Line-out

CE FCC

Introduction

The MIC-3359 is the most cost effective, all-in-one CompactPCI single board computer available today and is ideally suited for the most demanding industrial solutions. Optimized for the Intel® 845GV chipset, it supports both Celeron® and Pentium® 4 processors, as well as the mobile Intel® Pentium® 4 processor-M.

On-board VGA is fully integrated in the Intel® 845GV and two DDR DIMM slots support system memory up to 2 GB. A specially designed heatsink provides a fanless thermal solution while a watchdog and hardware monitor function provide reliability features. The abundance of front I/O ports, on board IDE, FDD connectors and a CompactFlash socket makes the board fully functional without the need and expense of a rear transition module. Several Ethernet options are available for 10/100/1000 Mbps connectivity depending on model number. A Pericom PI7C8150MA PCI-to-PCI bridge ensures full CompactPCI bus expansion.

Specifications

Processor System	CPU (CPU not included)	Intel® Pentium® 4 Processor	Mobile Intel® Pentium® 4 processor-M
	Max. Speed	2.8 GHz	2.5 GHz
	L2 Cache	256 KB/512 KB	512 KB
	Chipset	Intel® 845GV	
	BIOS	Award 4 Mbit Flash	
Bus	Front Side Bus	400/533 MHz	
	PCI	32-bit/33 MHz	
Memory	Technology	DDR200/266/333 (only at FSB 533 MHz) SDRAM	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x2	
Graphic	Controller	Integrated in 845GV	
	VRAM	Dynamically shared system memory 8-64 MB	
	Resolution	Up to 1600 x 1200 64k color/75 Hz	
Ethernet	Interface	10/100 Fast Ethernet	
	Controller	Intel® 82562ET (default) and reserve Intel® 82551ER (upgradeable to Gigabit LAN Intel® 82540EM)	
	I/O Connector	RJ-45	
EIDE	Mode	PIO mode 4, DMA 66/100 mode	
	Channel	2 (one for CF, one for HDD/Optical drive)	
PCI-to-PCI Bridge	Interface	Transparent mode	
	Controller	Pericom PI7C8150MA	
	System Bus	32-bit/33 MHz	
Operating System	Compatibility	Windows® XP/2000/NT 4.0, Red Hat Linux 9.0, VxWorks	
Hardware Monitor	Controller	Winbond W83627HF	
	Monitor	CPU temperature, +3.3 V/+5 V/+12 V System temp, Vcore,+1.5 V	
Watchdog Timer	Output	Interrupt, system reset, NMI	
	Interval	Programmable, 0 ~ 255 sec.	
Miscellaneous	Solid State Disk	CompactFlash Socket	
	LEDs	HDD, power	
	USB (2.0)	4 channels	
	Real Time Clock	Built-in	
	Audio Output	AC'97 audio interface	

Specifications Cont.

Power Requirement (P4 2.0 GHz)	Voltage	+3.3 V	+5 V	+12 V	-12 V
	Maximum	2.0 A	8.8 A	470 mA	53 mA
Environment	Temperature	Operating 0 ~ 55 °C (32 ~ 131 °F)		Non-Operating -40 ~ 70 °C (-40 ~ 158 °F)	
	Humidity	-		95 % @ 60 °C (non-condensing)	
	Vibration (5-500 Hz)	1.0 Grms		2.0 Grms	
Physical Characteristics	Dimensions	233.35 x 160 mm (9.2" x 6.3"), 2-slot width			
	Weight	1.05 kg (2.31 lb)			
Compliance	Standard	PICMG® 2.0, R3.0 CompactPCI Specification			

Recommended Configurations

CPU Board	Rear I/O Board	Enclosure
MIC-3359	RIO-3309L	MIC-3036-S2, MIC-3056A, MIC-3038A/C, MIC-3041B/C/CW/L, MIC-3042B, MIC-3081A/B, MIC-3082A

* MIC-3359 doesn't support PICMG 2.16 compliant enclosures.

** The MIC-3359 series has been designed to be fully functional without the need for a Rear Transition Board.

Rear Transition Board

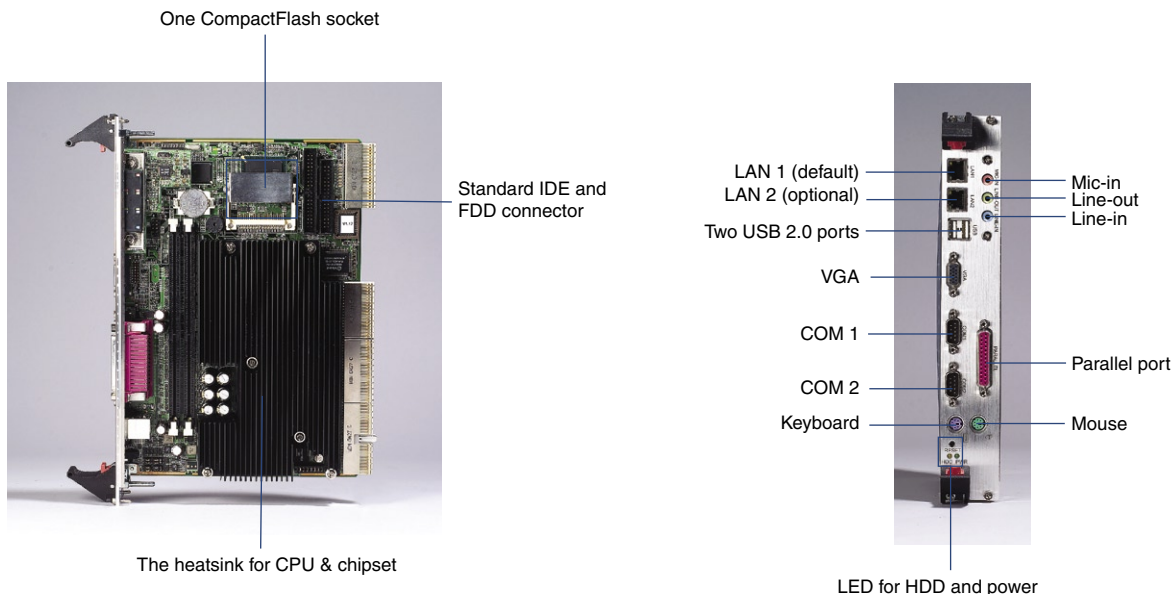
Model	Rear Panel					On-board Header / Socket / Connector							Slot Width
	KB & Mouse	COM1	VGA	USB	RJ 45 (10/100)	Parallel	IDE	FDD	COM1	PRT	USB	Conn.	
RIO-3309L	1	1	1	1	1	1	1	1	1	1	1	J3/J5	1

Ordering Information

Part Number	Front Panel I/O							On-board Main Features		
	PS/2 Keyboard	PS/2 Mouse	RJ45	COM*	USB	VGA	Parallel	DIMM	CF Socket	Slot Width
MIC-3359	1	1	1 (10/100)	2	2	1	1	2	1	2
MIC-3359-A	1	1	2 (10/100)	2	2	1	1	2	1	2
MIC-3359-B	1	1	1 (10/100) 1 (10/100/1000)	2	2	1	1	2	1	2

* Supports RS232/422/485

** The above part numbers do not include the CPU or memory, please order separately.



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