

MIC-3358L

6U CompactPCI® Low Power Mobile Intel® Pentium® 4 Processor-M Board with VGA onboard/LAN



Features

- Low power consumption
- Supports Mobile Intel® Pentium® 4 Processor-M up to 2.2 GHz - Plus (u-FCPGA, Socket 478)
- Intel 845E chipset
- Slim, 6U 4HP form factor
- 256 MB onboard memory with ECC
- ATI Rage XL VGA on board with 8 MB VRAM
- PICMG® 2.1 (CompactPCI® Hot Swap) compliance

CE FCC

Introduction

The MIC-3358L is a powerful CompactPCI single board computer for mission critical, high availability industrial or military applications which need low power and high performance, as well as ruggedness for harsh operating environments. The MIC-3358L CompactPCI low-power CPU board is optimized for the Intel 845E chipset and mobile Intel Pentium 4 processor-M. It is an ultra-high density design with ATI Rage XL VGA and 256 MB ECC mode system onboard memory. The board can support up to 2 GB of memory. For Ethernet connectivity, the ICH4 10/100 Mb Fast Ethernet controller is connected to an optional rear transition module. The MIC-3358L is designed to work as a CompactPCI system board and is equipped with a PLX PCI6154 64-bit/33 MHz PCI-to-PCI bridge.

Specifications

Processor System	CPU (CPU not included)	Mobile Intel Pentium 4 Processor-M
	Max. Speed	2.2 GHz (400 MHz FSB)
	L2 Cache	512 KB on die
	Chipset	Intel 845E + ICH4
	BIOS	Award 4 Mbit Flash (Network booting/Console Redirect optional)
Bus	Front Side Bus	400 MHz
	PCI	32-bit/33 MHz
Memory	Technology	DDR 200/266 MHz SDRAM with ECC support
	Max. Capacity	2 GB (upon request)
	Integrated	256 MB onboard
Graphic	Controller	ATI RageXL
	VRAM	8 MB onboard
Ethernet	Interface	10/100 Mb Fast Ethernet
	Controller	Intel 82562ET
	I/O Connector	Via RJ-45 connector on RIO card
EIDE	Mode	ATA 33/66/100 mode
	Channels	2
Bridge	Interface	System mode
	Chipset	PLX PCI6154 PCI-to-PCI Bridge (HiINT HB2)
	Bus	Up to 64-bit/33 MHz PCI
I/O Interface	Serial	1 (COM1)
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.
Miscellaneous	Solid State Disk	CompactFlash socket
	LED Indicator	HDD, power, hot swap
	USB (2.0)	2 channels
	Real Time Clock	Built-in

Specifications Cont.

Power Requirement (P4-M 1.7 GHz)	Voltage	+ 3.3 V	+ 5 V	+ 12 V	- 12 V
	Maximum	4.43 A	4.9 A	35 mA	<25 mA
Physical Characteristics	Dimensions (W x D)	233.35 x 160 mm (9.19" x 6.3"), 1-slot width			
	Weight	0.8 Kg (1.76 lb)			
Environment	Temperature	Operating 0 ~ 55 °C (32 ~ 131 °F)		Non-Operating -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	
Compliance	PICMG 2.0 R3.0 CompactPCI Specification PICMG 2.1 R2.0 CompactPCI Hot Swap Specification				

Recommended Configurations

CPU Board	Rear I/O Board	Enclosure
MIC-3358L	RIO-3309L	MIC-3036-A/S2, MIC-3039-B, MIC-3056A, MIC-3038A, MIC-3041B/C/CW/L, MIC-3042B, MIC-3081B, MIC-3082A, CP-150, MIC-3043A/B

Rear Transition Board

Model	Rear Panel						Onboard header/Socket/Connector						Slot Width
	KB& Mouse	COM1	VGA	USB	10/100 LAN	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

Model Number	Front Panel I/O				Onboard Main Features			
	LAN	COM**	USB	VGA	CPU	Memory	CF Socket	Slot Width
MIC-3358L*	0	1	2	1	-	256 MB	1	1

* Please order RIO-3309L with MIC-3358L for rear I/O access.

** RJ-45 type COM port

Note: The above part numbers do not include the CPU, please order separately.

