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# MIC-3358L

## 6U CompactPCI Low Power Intel® Mobile Pentium® 4-M Single Board Computer with VGA on board



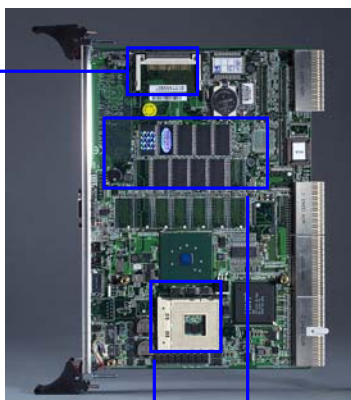
### Features

- Low Power Consumption
- Higher Performance -- Intel® Mobile Pentium® 4 processor-M up to 2.2Ghz - Plus (u-FCPGA, Socket 478)
- Intel 845E Chipset support 400/533MHz FSB
- Slim, 6U 4HP form factor
- 256MB memory on board with ECC, and upgradeable to 2GB memory.
- ATI Rage XL VGA on board with 8MB VRAM
- PLX PCI6154 PCI-to-PCI Bridge
- CompactPCI Core Specification, PICMG® 2.0 R3.0
- PICMG 2.1 R 2.0 Specification (Hot Swap) compliant
- PICMG 2.9 Specification (IPMI) compliant

### Introduction

The MIC-3358L is a CompactPCI™ SBC to explore the mission critical, high availability Industrial or even military applications which need low power/low heat, high performance, as well as ruggedness under any harsh operating environment.

The MIC-3358L CompactPCI® low power CPU board is optimized for Intel® 845E chipset and mobile Pentium® 4 processor. It is an ultra-high density design with ATX Rage XL VGA and 256MB ECC mode system memory on boards, and upgradeable to 2GB. The ICH4 10/100 Mb fast Ethernet is connected to rear I/O module. MIC-3358L is designed to work as a master mode by equipped with PLX PCI6154 64-bit/32MHz PCI-to-PCI bridge. And feature of PICMG 2.9 (IPMI) compliant benefits the remote system and platform management.



One CF Socket

u-FCPGA socket

Memory on board



One passive CPU & chipset Heatsink



One DB-15  
VGA Port

Two USB 2.0  
ports

One RJ-45  
Com 1 Port

Your ePlatform Partner

**ADVANTECH**

## Specifications

Processor System	CPU	Intel® Mobile Pentium® 4-M Processor (Fanless)			
	Max. Speed	2.2GHz (and 2.2GHz Plus – Base on Intel's Roadmap)			
	L2 Cache	512KB on die			
	Chipset	Intel 845E			
Bus	BIOS	Award 4Mb Flash (Network booting/Console Redirect <b>optional</b> )			
	Front Side Bus	400/533MHz			
Memory	PCI	32bit/33MHz			
	Technology	DDR-200/266 SDRAM with ECC support			
	Max. Capacity	2GB ( <b>optional</b> )			
Graphic	Integrated	256MB on board			
	Controller	ATI RageXL			
	VRAM	8 MB on board			
Ethernet	Resolution	Up to 1600x1200 64k color / 75Hz			
	Interface	10/100 Ethernet			
	Controller	ICH4			
EIDE	I/O Connector	Via RJ45 connector on RIO card			
	Mode	PIO mode 4, DMA 66/100 mode			
Bridge	Channels	2			
	Chipset	PLX PCI6154 PCI-to-PCI Bridge ( Hint HB2 )			
	Bus	Up to 64-bit/33MHz PCI			
I/O Interface	Interface	System mode			
	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			
	LEDs	HDD, Power, Hot Swap			
	USB (2.0)	2 channels			
	Real Time Clock	Built-in the South Bridge			
Power Requirement (P4-M 1.7GHz)	Voltage	+3.3 V	+5 V	+12 V	- 12V
	Maximum	4.43A	4.9 A	35 mA	< 25 mA
Physical	Dimensions	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	20G		50G	
	Vibration (5-500 Hz)	1.5 Grms		2.0 Grms	
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 Specification			
		PICMG 2.1, R2.0 Hot-Swap Specification			
		PICMG 2.9, R1.0 IPMI Specification			

# MIC-3358L

## Rear Transition Board

	Rear Panel						On-board header / Socket / Connector						Slot Width
Model	KB & Mouse	COM1	VGA	USB	10-BaseT LAN	Parallel	IDE	FDD	COM1	PRT	USB	Conn.	1
RIO-3309L	1	1	1	1	1	1	1	1	1	1	1	J3/J5	

## Ordering Information

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

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

\*\* RJ45 type Com Port



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