MIC-3358

6U CompactPCI® Intel® Pentium® 4 **Processor-M Single Board Computer** with VGA/Dual Giga LAN/PMC



Features

- · Intel® Pentium® 4 Processor-M up to 2.2 GHz with u-FCPGA and u-FCBGA socket design
- · Dual Gigabit Ethernet on board
- Up to 2 GB (DDR-266) memory on board with ECC
- Intel® 845E chipset
- · One 32-bit/33 MHz PMC expansion slot
- PICMG® 2.16 compliant with Packet Switching Backplane Specification
- PICMG 2.9 compliant with System Management Specification
- · Hot Swap Specification compliant (PICMG 2.1)
- · Optional on-board 2.5" HDD or CompactFlash
- · System/Drone mode selectable

NEW

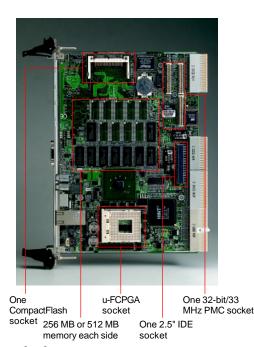
Introduction

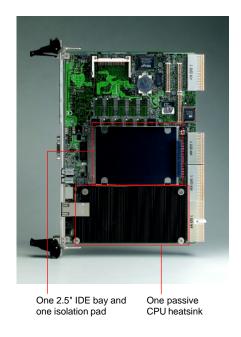
The MIC-3358 is a CompactPCI server blade with Intel® Pentium® 4 Processor-M on board in compliance with Compact Packet Switching Backplane (cPSB) systems. Supporting the PICMG 2.16 specification, the MIC-3358 delivers a cost performance platform for those applications that demand low power and high performance. It is an ideal platform for emerging application such as switch-fabric blade server, mission critical and computing intensive applications like third-generation (3G) wireless, voice over Internet protocol (VoIP), networking, image processing and converged data and voice communication applications.

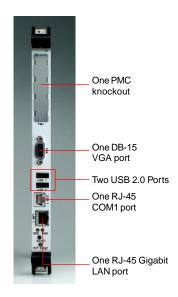
The new MIC-3358 has been optimized for the Intel®Pentium®4 Processor-M and Intel 845E Chipset. It unveils as a high performance cPCI platforms, delivering compelling system bus speed performance across the 400 MHz and 533 MHz with Intel®NetBurst™ microarchitecture. Its innovative

wider data paths and flexible memory refresh technology optimize the DDR SDRAM performance in the MIC-3358. It also provides 512 KB of On-die L2 Cache, dual Gigabit Ethernets. Advantech is ready, with the MIC-3358 platform to meet customer's high performance requirements for both CPUs and I/Os.

As the mission-critical demand increases in the next generation networking and telecommunication equipments, the MIC-3358 has been optimized to play as a master card in a cPCI system, it could also plug into a peripheral slot as a "drone mode" operating in stand-alone computer. The MIC-3358 is designed in complaince with PICMG 2.9 specification in cooperating with the remote system and platform management.







FCC

Specifications

	CPU	Intel®Pentium®4 Processo	or-M (fanless)							
	Speed	1.7 GHz/2.2 GHz (400 MH	Iz FSB)							
Processor System	L2 Cache	512 KB on die	•							
•	Chipset	Intel® 845E								
	BIOS	Award 4 Mb Flash (Netwo	ork booting/Console Redirect of	optional)						
Due	Front Side Bus	400 MHz	-							
Bus	PCI	32-bit/33 MHz								
	Technology	DDR-200/266 SDRAM wit	h ECC support							
Memory	Max. Capacity	2 GB (optional)								
	Integrated	512 MB/1 GB/2 GB memory on board (No onboard SO-DIMM connector for upgradility)								
	Controller	ATI RageXL								
Graphic	VRAM	8 MB on board								
	Resolution	Up to 1600 x 1200 64 k d								
	Interface	10/100/1000Base-TX Giga	ibit Ethernet							
Ethernet	Controller	Intel® 82540 x 2								
	I/O Connector	RJ-45 x 1 (Front)								
	Mode	ATA 66/100 mode								
EIDE	Channel	2								
	Storage Site		pace reserved for embedded 2	1.5" HDD						
	Interface	System/Drone mode capa	bility							
PCI-to-PCI Bridge	Controller	Hint HB6								
	Bus	Up to 64-bit/ 33 MHz PCI								
Front I/O Interface	LAN	1								
TTOTIL I/O IIILGITAGG	Serial	1 (RS-232, RJ-45 connec								
Operating System	Compatibility		Red Hat Linux 8.0 and 9.0	VxWorks						
Hardware Monitor	Controller	Winbond W83782D								
Tiardware Monitor	Monitor	CPU temperature, 3.3 V/5								
Watchdog Timer	Output	Interrupt, system reset, N								
vatoridog rimor	Interval	Programmable, 0~255 sec	D							
	Site	1								
PMC	Interface	PCI Mezzanine (IEEE1386	.1)							
	Signal	+5 V/+3.3 V compliant								
	Solid State Disk	1 CompactFlash socket								
Miscellaneous	LEDs	HDD, power, hot swap								
moonanoodo	USB (2.0)	2 channels								
	Real Time Clock	Built-in the South Bridge								
Power Requirement	Voltage	+3.3 V	+5 V	+12 V						
(P4-M 1.7 GHz)	Typical	2.0 A	3 A	< 50 mA						
, ,	Maximum	4.43 A	4.9 A	35 mA						
		Operating		Non-Operating						
	Temperature	0 ~ 55° C (32 ~ 131° F)		-40 ~ 70° C (-40 ~ 158° F)						
Environment	Humidity	00.0		95 % @ 60 ° C (non-condensing)						
	Shock	20 G		50 G						
	Vibration (5-500 Hz)	1.5 Grms		2.0 Grms						
Physical	Dimensions	233.35 x 160 mm (9.19")	x 6.3"), 1-slot width							
, = . 50.1	Weight	0.8 kg (1.76 lb)								
Compliance	Standard	PICMG 2.0, R3.0 Compac	Management Specification	ation						

Recommended Configurations

•			
CPU Board	PMC Module	Rear I/O Board	Enclosure
MIC-3358A	MIC-3662D, MIC-3661D	RIO-3309C-A	MIC-3036, MIC-3056A, MIC-3038A, MIC-3038C, MIC-3041B, MIC-3081A, MIC-3081B

Rear Transition Board

Hour Humortion Bourd														
Part Number	Rear Panel						On-board Header / Socket / Connector						Clas Widsh	
	KB & Mouse	COM2*	GbE LAN	VGA	USB	10-BaseT LAN**	IDE	FDD	COM1	PRT	USB	Conn.	Slot Width	
RIO-3309C-A	1	1	2	1	1	1	1	1	1	1	1	J3/J5	1	

Ordering Information

	Part Number			Front Panel I/0	0		On Board Main Features					
		LAN	COM	PMC	USB	VGA	CPU	Memory	EIDE Channel	CF socket	Slot Width	
	MIC-3358A-M0 *	1	1	1	2	1		512 MB	2.5" HDD	1	1	
	MIC-3358A-M1 *	1	1	1	2	1		1 GB	2.5" HDD	1	1	
	MIC-3358A-M2 **	1	1	1	2	1		2 GB	2.5" HDD	1	1	

^{*} Support RS-232/422/485 selectable
** Optional for 3rd LAN from MIC-3358 but occupies the I/O port for COM2.

^{*} Please order RIO module (refer to above table) with MIC-3358 for rear I/O access. ** Please contact your local distributor for MIC-3358A-M2, not for standard ordering process.