MIC-3359

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

Features

- Supports Intel® Pentium® 4 processor up to 2.8 GHz & Mobile Intel Pentium 4 processor-M up to 2.2 GHz and above (Micro-FCPGA, Socket 478)
- Intel 845GV chipset supports 400/533 MHz FSB
- Intel 82562ET, 82551ER (10/100Base-T) or 82562ET & 82541PI (1000Base-T) combinations available
- 2 DDR DIMM sockets support up to 2 GB memory
- AC97 Audio Mic-in, Line-in and Line-out

RoHS COMPLIANT 2002/95/EC   c**RU**us E180881   CE   FCC

Introduction

The MIC-3359 is the most cost effective single board computer in Advantech's range of all-in-one CompactPCI® boards. Optimized for the Intel 845GV chipset, it supports Celeron® and Pentium 4 processors, as well as the mobile Intel Pentium 4 processor-M. Onboard 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 provide reliability features. The abundance of front I/O ports, onboard IDE, FDD connectors and a CompactFlash socket makes the board fully functional without the need for 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

		Intel Pentium 4 Processor	Mobile Intel Pentium 4 processor-M
Processor System	CPU (Not Included)	Intel Pentium 4 Processor	Mobile Intel Pentium 4 processor-M
	Max. Speed	2.8 GHz	2.2 GHz
	L2 Cache	256 KB/512 KB	512 KB
	Chipset	Intel 82845GV	
	BIOS	Award™ 4 Mbit Flash	
Bus	Front Side Bus	400/533 MHz	
	PCI	32-bit/33 MHz	
Memory	Technology	DDR 200/266/333 MHz (only at FSB 533 MHz) SDRAM	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
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	10/100Base-T or 10/100Base-T & 1000Base-T Ethernet	
	Controller	Intel 82562ET, 82551ER (10/100Base-T) or 82562ET & 82541PI (1000Base-T)	
	I/O Connector	RJ-45	
EIDE	Mode	PIO mode 4, DMA 66/100	
	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	
	LED Indicator	HDD, Power	
	USB 2.0	4 channels	
	Real Time Clock	Built-in	
	Audio Output	AC97 audio interface	

ADVANTECH

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		Operating		Non-Operating	
	Temperature	0 ~ 55° C (32 ~ 131° F)		-40 ~ 70° C (-40 ~ 158° F)	
	Humidity	-		95% @ 60° C (non-condensing)	
	Vibration (5 ~ 500 Hz)	1.0 Grms		2.0 G	
Physical Characteristics	Dimensions (W x D)	233.35 x 160 mm (9.2" x 6.3"), 2-slot width			
	Weight	1.05 kg (2.31 lb)			
Compliance	PICMG 2.0 R3.0 CompactPCI Specification				

Recommended Configurations

CPU Board	Rear I/O Board	Enclosure
MIC-3359E, MIC-3359-AE, MIC-3359-BE	RIO-3309LE	MIC-3056, MIC-3038, MIC-3041B, MIC-3042B, MIC-3043A, MIC-3043B, MIC-3043D, MIC-3081B, CP-150 series

Note:

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

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

Ordering Information

Part Number	Front Panel I/O							Main Onboard Features		
	PS/2 Keyboard	PS/2 Mouse	RJ-45	COM*	USB	VGA	Parallel	DIMM	CF Socket	Slot Width
MIC-3359E	1	1	1 (10/100)	2	2	1	1	2	1	2
MIC-3359-AE	1	1	2 (10/100)	2	2	1	1	2	1	2
MIC-3359-BE	1	1	1 (10/100) 1 (10/100/1000)	2	2	1	1	2	1	2

* Supports RS-232/422/485

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

One CompactFlash socket

Standard IDE and FDD connector

Heatsink for CPU & chipset

LAN 1 (default)
LAN 2 (optional)
Two USB 2.0 ports
VGA
COM 1
COM 2
Keyboard

Mic-in
Line-out
Line-in

Parallel port

Mouse

LED for HDD and power