MIC-3316

Features

- Build-in Ultra Low Voltage Intel® Celeron® 650 MHz
- Support up to 384 MB SDRAM
- Two on-board CompactFlash® Socket
- Two RS-232/422/485 ports
- Two USB ports
- One 10/100 Mbps Ethernet port
- Watchdog timer
- One DVI-I interface
- One PCI-to-PCI bridge drives up to 7 Masters
- Battery-backup 512 K RAM
- Timer IRQ
- Support AC97-audio, Line in, Line out, MIC in
- Rear I/O support
- Support onboard 2.5" HDD

CE

Introduction

MIC-3316 is a 3U-sized CompactPCI® all-in-one single board computer that is optimized for its Ultra Low Voltage Intel® Celeron® 650 MHz processor. On-chip 256 KB L2 cache provides high performance, while the fanless design increases reliability. The CPU is also designed for a wide operating temperature range.

MIC-3316 has compliance with the PICMG 2.0 R2.1 CompactPCI specifications and provides very powerful functions on a 3U-sized board for demanding applications like real-time machine control and industrial automation.

Compact Mechanical Design

MIC-3316 offers many functions on 2 or 3-slot width. Advantech provides a CPU heat sink specially designed for the Ultra Low Voltage Intel® Celeron® 400/650 MHz and Low Voltage Intel® Pentium® III 800/933 MHz processors, enabling the MIC-3316 to operate without a cooling fan on the heat sink. It only needs external cooling air from the chassis fans for ventilation. This enables the MIC-3316 to use the Ultra Low Voltage Intel® Celeron® 400/650 MHz and Low Voltage Intel® Pentium® III 800/933 MHz processors within a mere 2-slot wide space.

Specifications

CPU		ULV Intel® Celeron®
Max. CPU Speed		650 MHz
L2 Cache		256 KB
Chipset		Intel® 82815E (GMCH)
Bus	PCI	32-bit/ 33MHz
	PCI-to-PCI Bridge	PI7C8150
Memory	Technology	PC100 / PC133-compliant SDRAMs
	Capacity	384 MB
Rear I/O		Support
Graphic Controller		Intel® 815E
Ethernet Controller		Intel® 82551QM
Watchdog Timer		1 ~ 255 sec.
CompactFlash Slot		MIC-3316, MIC-3316P: On-board x 1 MiC-3316F: On-board x 2(IDE,USB)
I/O Interface	VGA	Rear I/O x 1
	LAN	On-board x 1 (MbE), Rear I/O x 1 (MbE)
	DVI	On-board x 1
	Serial	On-board RS-232/422/485 x 2, Rear I/O x 2
	Parallel	MIC-3316P: On-board x 1
	USB	On-board v1.1 x 2, Rear I/O x 1
PICMG Compliance		CompactPCI V2.0, R 3.0 Hot-Swap V2.1, R 2.0

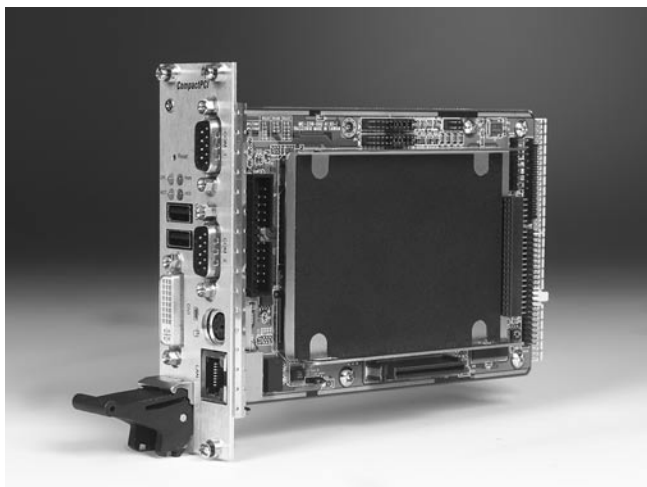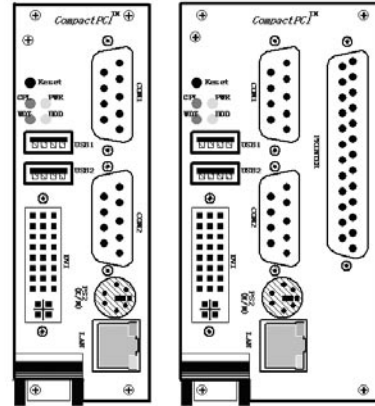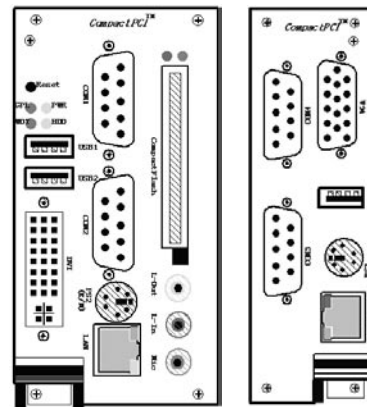| OS Support	Windows® 2000/XP
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Storing Temperature	-20 ~ 80° C (-4 ~ 176° F)
Humidity	5 ~ 95% (non-condensing)

Ordering Information

- **MIC-3316** 3U CompactPCI® Ultra Low Voltage Intel® Celeron® 650 MHz CPU board 2-slot with MIC-3316 basic function and 128 MB on-board SDRAM and Rear I/O support
- **MIC-3316P** 3U CompactPCI® Ultra Low Voltage Intel® Celeron® 650 MHz CPU board 3-slot with a parallel port and 128 MB on-board SDRAM and Rear I/O support
- **MIC-3316F** 3U CompactPCI® Ultra Low Voltage Intel® Celeron® 650 MHz CPU board 3-slot with AC97 Audio and CF Card Reader and 128 MB on-board SDRAM and Rear I/O support
- **MIC-3516** Rear I/O Module for MIC-3316 series

Front View of MIC-3316

MIC-3316   MIC-3316P

MIC-3316F   MIC-3516