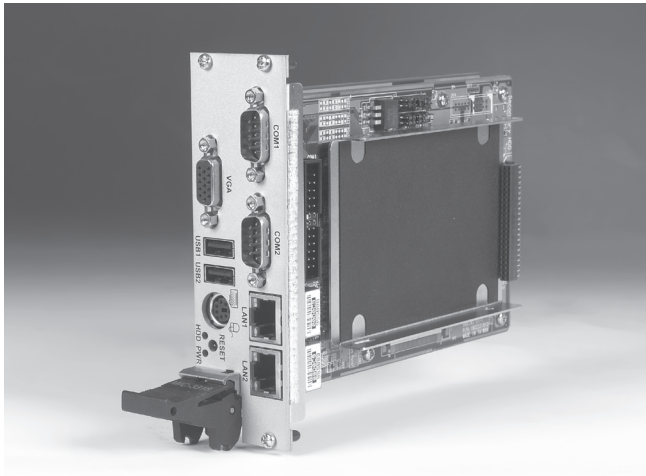


MIC-3318

3U CompactPCI® Pentium® 4-M Controller



Features

- Built-in Intel® Pentium® 4-M CPU processor up to 1.7 GHz
- Supports up to 512 MB DDR-266 memory on board
- On-board high-performance VGA display
- Dual Gigabit Ethernet with RJ-45 connector on board
- Supports 2 Ultra ATA 33/66/100 high-speed IDE devices
- Onboard CompactFlash® disk socket
- One PCI-to-PCI bridge drives up to 7 bus master peripherals
- Advantech Hot-swap Manager to support Advantech I/O and Communication Hot-swap function
- Rear I/O signal support for easy wiring (MIC-3318R only)
- Supports on-board 2.5" HDD

Introduction

The MIC-3318 is a 3U CompactPCI® controller that has been optimized for its on-board Intel® Pentium® 4 Processor-M, and Intel® 845GV Chipset. Designed to be a high performance CompactPCI® platform, MIC-3318 delivers compelling system bus speed performance at 400 MHz with its Intel NetBurst™ microarchitecture. Innovative wide data paths and flexible memory refresh technology optimize the DDR SDRAM's performance in the MIC-3318. 512 KB of On-die L2 Cache, and dual Gigabit Ethernet ports are also provided.

MIC-3318 is a powerful 3U CompactPCI® Controller that fulfills your requirements in mission-critical applications, such as military defense, transportation, traffic control, test and measurement (T&M) as well as critical data acquisition & control applications.

Specifications

Processor System

- **CPU** Intel® Pentium® 4 Processor-M (fanless)
- **Speed** 1.2 or 1.7 GHz (400MHz FSB), BIOS selection
- **L2 Cache** 512 KB on die
- **Chipset** Intel® 845GV
- **BIOS** Award 4 MB Flash

Bus

- **Front Side Bus** 400 MHz
- **PCI-to-PCI Bridge Controller** Pericom P17C8150
- **PCI** 32-bit/33 MHz

Memory

- **Technology** PC-2100 DDR266 SO-DIMM, 200-pin socket x 1
- **Capacity** 1 GB

Graphics

- **Controller** Integrated in Intel® 845GV chipset
- **VRAM** DVMT 64 MB
- **Resolution** 2048 x 1536 High Color @ 75 Hz for Flat panel
1920 x 1080 True Color @ 85 Hz for CRT

Ethernet

- **Interface** 10/100/1000Base-TX Gigabit Ethernet
- **Controller** Intel® 82540 x 2
- **Connector** RJ-45 x 2
- LAN1 supports both front and rear I/O access on MIC-3318R (jumper selectable)

Serial

- **Interface** RS-232/422/485, jumper selectable
- **Controller** Winbond™ 83627HF Super IO chip
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even, odd
- **Speed (bps)** 50 ~ 115.2 k
- **Data signals** RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI
- **RS-422/485** TxD, RxD, RTS, CTS
- **Connectors** DB-9 x 2
- COM1 supports both front and rear I/O access on MIC-3318R

EIDE

- **Mode** ATA 33/66/100 mode
- **Channels** 2 (One 44-pin 2.5" HDD connector and ext-connector; another for CF socket)
- **Storage Site** One IDE connector and space reserved for embedded 2.5" HDD

Front I/O Interface

- **LAN** 2 x Gigabit Ethernet, RJ-45 connector
- **Serial** 2 x RS-232/422/485, DB-9 connector

Rear I/O Signal Interface (MIC-3318R series)

- VGA, KB/MS, USB3, USB4, LAN1, COM1

Operating Systems

- **Compatibility** Windows® 2000/XP

Hardware Monitor

- **Controller** Winbond™ 83627HF Super IO chip
- **Monitor** CPU temperature, 3.3 V/5 V/12 V

Watchdog Timer

- **Output** System reset
- **Interval** Programmable, 0 ~ 255 sec.

Miscellaneous

- **Solid State Disk** One on-board CompactFlash socket
- **2.5" HDD** One 2.5" HDD bay for easy installation
- **LEDs** Power, IDE
- **USB (v2.0)** 2 channels
- **Real Time Clock** Built into the South Bridge

Power Requirements

With P4-M 1.2 GHz				
	+3.3 V	+5 V	+12 V	-12 V
Typical	1.7 A	3.4 A	16 mA	16 mA
Max	1.7 A	4.7 A	16 mA	16 mA

With P4-M 1.7 GHz				
	+3.3 V	+5 V	+12 V	-12 V
Typical	1.7 A	4.1 A	16 mA	16 mA
Max	1.7 A	5.7 A	16 mA	16 mA

Environment

- **Operating Temperature** -10 ~ 60° C @1.2 GHz CPU
-10 ~ 50° C @1.7 GHz CPU
- **Storage Temperature** -40 ~ 80° C (-40~140° F)
- **Humidity** 95% @ 60° C, non-condensing

Physical

- **Dimensions** 100 x 160 mm (3U), 2-slot (8 TE) width
- **Weight** 0.6 kg

Compliance

- **Standard** PICMG 2.0, R3.0 CompactPCI® Specification
PICMG 2.1, R2.0 Hot-Swap Specification

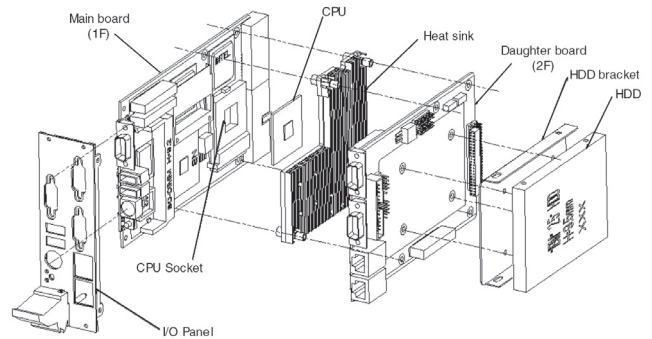
Rear Transition Board for MIC-3318R series

- **P/N** MIC-3518
- **KB/MS** Yes
- **COM** COM1
- **LAN** LAN1
- **VGA** Yes
- **USB** USB3, USB4

Ordering Information

- **MIC-3318-AC00** MIC-3318 w/ on-board P4-M 1.7 GHz CPU, 256 MB RAM without Rear I/O support
- **MIC-3318-AD00** MIC-3318 w/ on-board P4-M 1.7 GHz CPU, 512 MB RAM without Rear I/O support
- **MIC-3318R-AC00** MIC-3318 w/ on-board P4-M 1.7 GHz CPU, 256 MB RAM and Rear I/O support
- **MIC-3318R-AD00** MIC-3318 w/ on-board P4-M 1.7 GHz CPU, 512 MB RAM and Rear I/O support
- **MIC-3518** Rear I/O module for MIC-3318R

Assembling/ Disassembling MIC-3318



Front View of MIC-3318

