MIC-3001/8
MIC-3001R/8

3U 8-slot CompactPCI® Enclosure

3U 8-slot CompactPCI® Enclosure with Rear I/O Slots

Features

- Eight 3U CompactPCI® slots
- Easy installation: rackmount or panelmount
- Hot-swap compliant backplane
- Hot-swap fan tray module
- Optional fault detection and alarm notification
- Logic Ground and Chassis Ground can be isolated or common

Introduction

The MIC-3001/8 is a 4U-size enclosure with eight CompactPCI® slots for rack or panel mounting. Its flexible modular design allows users to configure for a variety of applications. Reserved space in Device Bay can be used to install peripherals such as an alarm module, a power supply or a CD-ROM drive.

Hot-swap Passive Backplane

The 3U-size 8-slot backplane of the MIC-3001/8 supports 32-bit or 64-bit (optional) operation. The backplane complies with the PICMG 2.1 Hot-Swap Specification, and you can build easy-to-maintain systems with hot-swappable CompactPCI® boards and software.

Hot-swap Fan Tray Module

A 1U-high fan module provides forced cooling air into the system. Two 133-CFM high-speed fans are mounted in a hot-swap tray directly underneath the card slots. The fan's tachometer output enables the alarm module to monitor the speed of the fans, and a protective circuit has been designed into the fan backplane to reduce spikes and noise during hot-swapping. This design allows replacement of fans without turning the system off.

Specifications

- **Construction** — Aluminum frame and galvanized sheet steel
- **Slots** — 21-slot space (84 TE), 8 CompactPCI® slots, including one system slot and seven peripheral slots. (14 slots for MIC-3001CR/14-A)
- **32-bit CompactPCI bus**
- **Hot Swap Compliance** — PICMG 2.1 R 1.0 Hot Swap Specification
- **Dimensions (W x H x D)** — 440 x 178 x 240 mm (17.3" x 7" x 10") **Mnt. flanges not inc.**
- **Weight** — 7 kg (15 lb)
- **Operating Temperature** — 0 ~ 50° C (32 ~ 122° F)
- **Relative Humidity (operating and storage)** — 10 ~ 90% @ 40° C, non-condensing

ATX Power Supply

- **Input** — 90 ~ 135 or 180 ~ 265 V$_{AC}$ @ 47 ~ 63 Hz, switchable
- **Max. Output** — 400W total, 210 W for +3.3 V and 5 V
- **MTBF** — 100 kHrs at 75% load for 25° C, Ambient Temperature
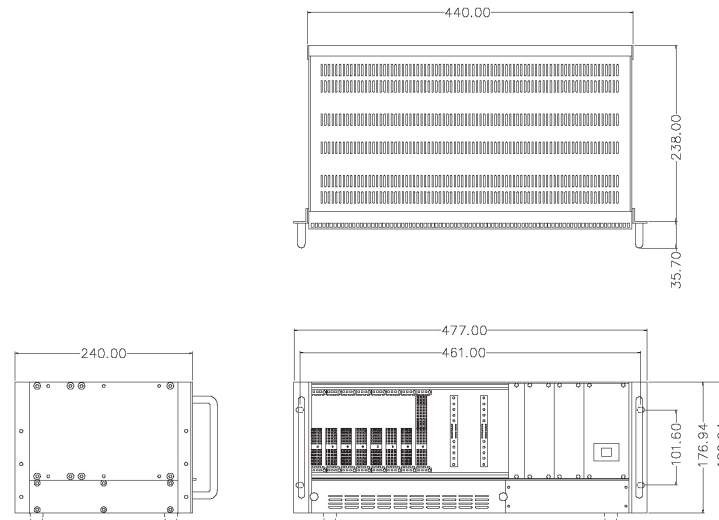- **Safety** — UL/CUL/CE

Backplane

- **Slots** — 8 CompactPCI® slots (one system slot and 7 peripheral slots)
- **Bus Width** — 32-bit (64-bit upon request)
- **PCB** — 8-layer PCB, 3.0 mm thick
- **Separation** — Separate power and ground planes
- **Power Connector** — One ATX power connector for connecting standard ATX power supply
- **Alarm Connector** — 20-pin connector for MIC-3920/MIC-3921 alarm board signals
- **Compliance** — Complies with PICMG 2.0, Ver. 2.1 CompactPCI® Specification and PICMG 2.1, Ver. 1.0 Hot Swap Specification
- **I/O Voltage** — 3.3 V or 5 V, jumper selectable
- **Logic Ground and Chassis Ground can be isolated or common**
- **Dimensions (W x H)** — 262.8 x 128.6 mm
- **Operating Temperature** — -40 ~ 80° C (-40 ~ 176° F)

Fan Tray Module

- **Air Flow** — Two fans, providing a total of 266 CFM (or above)
- **Power Consumption** — 0.53 A @ 12 V per fan, 1.06 A total
- **Rated Fan Speed** — 3400 rpm
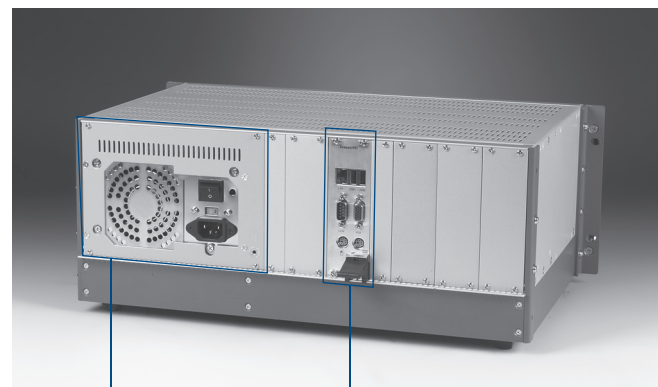- **Life Span** — 70,000 hours continuous operation @ 40° C with 15~65% relative humidity

ADVANTECH **CompactPCI Systems**

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Dimensions

440.00

238.00

35.70

240.00

477.00

461.00

101.60

176.94

189.94

Ordering Information

- **MIC-3001/8-4B** 3U CompactPCI chassis with 8-slot backplane, fan tray module, and AC ATX power supply

- **MIC-3001R/8-4B** 3U CompactPCI chassis with 8-slot backplane, fan tray module, AC ATX power supply and rear I/O support

- **MIC-3001HR/8-A** 3U CompactPCI chassis with 8-slot backplane, fan tray module, AC ATX redundant power supply and rear I/O support

- **MIC-3001CR/14-A** 3U CompactPCI® chassis with 14-slot backplane, fan tray module, standard AC ATX redundant power supply, and rear I/O support

Rear View of MIC-3001R/8

ATX Power Supply   Rear I/O Module

Front View of MIC-3001/8 and MIC-3001R/8

I/O Slots   System Slot   Power On/Off Switch

Fan Tray   Device Bay

All product specifications are subject to change without notice   Last updated : 8-Apr-2005