

# MIC-3001/8

## 3U 8-slot CompactPCI® Enclosure



### 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 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 86-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.
- **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")  
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- **Weight** 7 kg (15 lb)
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Relative Humidity** 10 ~ 90% @ 40° C, non-condensing  
(operating and storage)
- **Shock** 10 G (operating); 30 G (storage/transit)
- **Random Vibration** 1.0 Grms

#### AT Power Supply

- **Input** 90 ~ 135 or 180 ~ 265 V<sub>AC</sub> @ 47 ~ 63 Hz, switchable
- **Output** +3.3 V @ 15 A, +5 V @ 26 A, +12 V @ 9 A, -12 V @ 0.8 A
- **Min. Load** +3.3 V @ 0.3 A, +5 V @ 2 A, +12 V @ 1 A
- **Max. Output** 250 W total, 170 W for 5 V and 3.3 V
- **MTBF** 50,000 hours @ 70% load
- **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 AT power connector for connecting standard AT 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
- **V 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 113-CFM fans, providing 226 CFM in total
- **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

### Ordering Information

- **MIC-3001/8-AB** 3U CompactPCI chassis with 8-slot backplane, fan tray module, and AC AT power supply.