



### 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

### 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, power supplies, 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. Users can build hot-swap systems with hot-swappable CompactPCI boards and software.

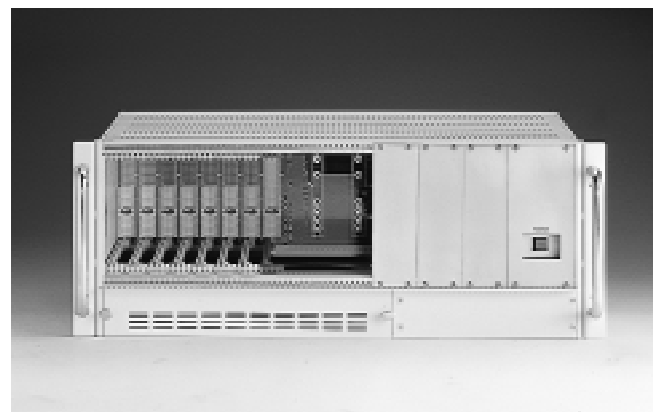
#### **Hot-swap Fan Tray Module**

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. A protective circuit has been designed into the fan backplane to reduce spikes and noise during hot-swapping. This design allows users to replace fans safely without turning the system off.

#### **System Fault Detection and Alarm Notification (optional)**

The MIC-3920 (optional intelligent alarm module) can be installed in the reserved space of the chassis to monitor and report internal conditions. The system's status (including temperature, power voltage levels and fan speed) can be easily checked from the front panel LED indicators. The serial port connector and relay terminals

are located on the enclosure's front panel for easy access. Three relays can be activated by different alarm levels. The alarm module's serial port can communicate via a remote host for real time monitoring, module configuration and alarm reporting.



*The MIC-3001/8 with 8-slot backplane*



## Specifications

- **Construction:** Aluminum frame and galvanized sheet steel
- 21-slot space (84 TE), 8 CompactPCI™ slots, including one system slot and seven peripheral slots.
- 32-bit CompactPCI bus (64-bit available upon request)
- Hot swap platform complies with PICMG 2.1 R 1.0 Hot Swap Specification
- **Dimensions (W x H x D, mounting flanges not included):** 440 x 178 x 240 mm (17.3" x 7" x 10")
- **Weight:** 7 kg (15 lb)
- **Operating temperature:** 0 ~ 50° C (32 ~ 122° F)
- **Relative humidity (operating and storage):** 10 ~ 90% @ 40 °C, non-condensing
- **Shock:** 10 G (operating); 30 G (storage/transit)
- **Random vibration:** 1.0 Grms

## Backplane

- 8 CompactPCI™ slots (one system slot and 7 peripheral slots)
- **Bus width:** 32-bit (64-bit upon request)
- 8-layer PCB, 3.0 mm thick
- Separate power and ground planes
- One ATX power connector for connecting standard ATX power supply
- 20-pin connector for MIC-3920/MIC-3921 alarm board signals
- 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 86-CFM fans, providing 172 CFM in total
- **Power consumption:** 0.45 A @ 12 V per fan, 0.9 A total
- **Rated fan speed:** 2170 rpm
- **Life span:** 50,000 hours @ 25° C

## ATX 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
- **Minumum 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



Hot-swap fans

## Ordering Information

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