

# MIC-3081B

## 10U CompactPCI® Enclosure with 8-slot 6U Backplane and Redundant Power Supply (CT Bus)



### Features

- 8-slot 6U CompactPCI® backplane
- PICMG 2.5 (CompactPCI Computer Telephony) compliance
- AC ATX 500 W power supply or AC ATX 560 W + 280 W redundant (2+1) power supplies
- Six 80-CFM front-accessible hot-swappable fan modules
- Built-in alarm module (MIC-3924L-AE)
- Device bay accommodates up to three devices

### Introduction

The MIC-3081B CompactPCI is a 10U enclosure with eight CompactPCI slots for rack mounting, providing a flexible, configurable development platform. It supports an 8-slot H.110 CT bus backplane and rear I/O designed to speed up the implementation of telecom, Internet and industrial automation applications.

#### Optimized for Cooling Airflow with Hot-swap Fans

A 2U space underneath the card slots accommodates six 80-CFM high speed fans to force cooling air into the system. All fans in this chassis are hot-swappable, allowing users to replace fans without interrupting the operation of the system. The fan's tachometer output enables the alarm module to monitor fan speed.

#### System Fault Detection and Alarm Notification

The MIC-3081B has a built-in intelligent alarm module, the MIC-3924L-AE, to monitor the fan speed, chassis temperature and power status. The module is upgradeable to MIC-3924A-BE which can monitor and report internal conditions via SNMP trap detection, e-mail, and pager or beeper notification. The system's status, including CPU (SBC) temperature, system power voltage levels, and fan speeds can be easily checked remotely from any Web browser.

#### Hot-swap Passive Backplane with H.110 CT Bus

The 6U-sized 8-slot backplane of the MIC-3081B supports 32/64-bit operation, and complies with PICMG 2.1 CompactPCI hot swap specifications. Eight CompactPCI slots are available for one system master board and seven 32/64-bit CompactPCI peripheral boards.

### Specifications

|                          |                                                            |                                                                                |       |       |       |        |                                     |       |       |       |       |        |
|--------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------|-------|-------|-------|--------|-------------------------------------|-------|-------|-------|-------|--------|
| Backplane                | 6U Slot                                                    | 8 slots (system slot x 1, peripheral slot x 7)                                 |       |       |       |        |                                     |       |       |       |       |        |
|                          | Bus                                                        | 32-bit/33 MHz, 64-bit/66 MHz PCI bus                                           |       |       |       |        |                                     |       |       |       |       |        |
|                          | V (I/O)                                                    | 3.3 V/5 V (selectable)                                                         |       |       |       |        |                                     |       |       |       |       |        |
| Cooling                  | Fan                                                        | 6 (80-CFM front-access hot-swappable fan modules on the chassis bottom; inlet) |       |       |       |        |                                     |       |       |       |       |        |
| Device Bay               |                                                            | MIC-3081B/8-10A                                                                |       |       |       |        | MIC-3081B/8-10R                     |       |       |       |       |        |
|                          | 5.25" HDD                                                  | 3                                                                              |       |       |       |        | 2                                   |       |       |       |       |        |
|                          | 3.5" HDD                                                   | 1                                                                              |       |       |       |        | 1                                   |       |       |       |       |        |
| Power Supply             | Input                                                      | AC 100 ~ 240 V @ 50 ~ 60 Hz, full range                                        |       |       |       |        |                                     |       |       |       |       |        |
|                          | Output                                                     | AC ATX 500 W*                                                                  |       |       |       |        | AC ATX 280 W redundant power module |       |       |       |       |        |
|                          | AC                                                         | +3.3 V*                                                                        | +5 V* | +12 V | -12 V | +5 Vsb | +3.3 V*                             | +5 V* | -5 V  | +12 V | -12 V | +5 Vsb |
|                          | Max. Load                                                  | 30 A                                                                           | 40 A  | 32 A  | 1 A   | 2 A    | 36 A                                | 58 A  | 0.5 A | 20 A  | 1.5 A | 1.5 A  |
|                          | Min. Load                                                  | 1 A                                                                            | 2.5 A | 1 A   | -     | 0.1 A  | 0.3 A                               | 2.0 A | -     | 0.5 A | -     | 0.1 A  |
| Reliability              | MTBF                                                       | 100,000 hours                                                                  |       |       |       |        |                                     |       |       |       |       |        |
| Environment              |                                                            | Operating                                                                      |       |       |       |        | Non-Operating                       |       |       |       |       |        |
|                          | Temperature                                                | 0 ~ 45° C (32 ~ 113° F)                                                        |       |       |       |        | -40 ~ 60° C (-40 ~ 140° F)          |       |       |       |       |        |
|                          | Humidity                                                   | -                                                                              |       |       |       |        | 10 ~ 95% @ 40° C, non-condensing    |       |       |       |       |        |
|                          | Shock                                                      | 10 G                                                                           |       |       |       |        | 30 G                                |       |       |       |       |        |
|                          | Vibration (5 ~ 500 Hz)                                     | 1.0 Grms                                                                       |       |       |       |        | 2.0 G                               |       |       |       |       |        |
| Physical Characteristics | Dimensions (W x H x D)                                     | 440 x 400 x 338 mm (17.3" x 17.5" x 13.4")                                     |       |       |       |        |                                     |       |       |       |       |        |
|                          | Weight                                                     | 18 kg (39.65 lb)                                                               |       |       |       |        |                                     |       |       |       |       |        |
| Compliance               | PICMG 2.0 R3.0 CompactPCI Specification                    |                                                                                |       |       |       |        |                                     |       |       |       |       |        |
|                          | PICMG 2.1 R2.0 CompactPCI Hot Swap Specification           |                                                                                |       |       |       |        |                                     |       |       |       |       |        |
|                          | PICMG 2.5 R1.0 CompactPCI Computer Telephony Specification |                                                                                |       |       |       |        |                                     |       |       |       |       |        |
|                          | RoHS, CE, FCC, UL                                          |                                                                                |       |       |       |        |                                     |       |       |       |       |        |

\* The maximum combined load on +5 V and +3.3 V output shall not exceed 290 W

## Backplane Information

| Physical Number | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8           |
|-----------------|----------|----------|----------|----------|----------|----------|----------|-------------|
| Function        | I/O slot | I/O slot | I/O slot | I/O slot | I/O slot | I/O slot | I/O slot | System slot |

## Recommended Configuration

| Enclosure                            | CPU Board                                                  | Rear I/O Board              | Chassis Management Module                                              |
|--------------------------------------|------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------|
| MIC-3081B/8-10AE<br>MIC-3081B/8-10RE | MIC-3358A-MxE<br>MIC-3369C-MxE                             | RIO-3309C-AE, RIO-3309S-AxE | Included<br>MIC-3924L-AE<br><br>Optional<br>MIC-3924A-BE<br>MIC-3927AE |
|                                      | MIC-3359E<br>MIC-3359-AE<br>MIC-3359-BE                    | RIO-3309LE                  |                                                                        |
|                                      | MIC-3390E<br>MIC-3390-AE<br>MIC-3392A-MxE<br>MIC-3392B-MxE | RIO-3310AE<br>RIO-3310S-AxE |                                                                        |

## Ordering Information

| Part Number      | Power Supply                                        | Chassis Management Module |
|------------------|-----------------------------------------------------|---------------------------|
| MIC-3081B/8-10AE | AC ATX 500 W                                        | 968A390023 (MIC-3924L-AE) |
| MIC-3081B/8-10RE | AC ATX 560 W + 280 W redundant (2+1) power supplies | 968A390023 (MIC-3924L-AE) |

\* The MIC-3924L-AE is upgradeable to MIC-3924A-BE

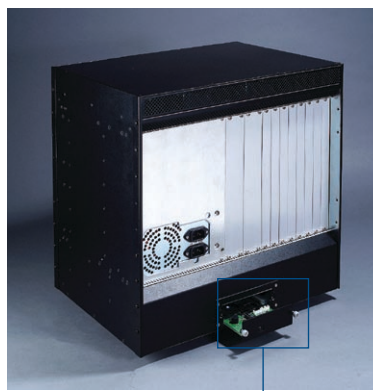
## Accessories

| Part Number | Description                                                     |
|-------------|-----------------------------------------------------------------|
| 1750000143  | 80 x 80 mm 80-CFM fan (included)                                |
| 1757000210G | AC ATX 280 W redundant power module (MIC-3081B/8-10RE included) |
| 1757000111G | AC ATX 500 W power supply (MIC-3081B/8-10AE included)           |
| 968A390000  | MIC-3924A-BE intelligent chassis management module              |
| 968A390020  | MIC-3924L-AE alarm module (included)                            |
| 968A390030  | MIC-3927AE intelligent chassis management module (IPMI)         |

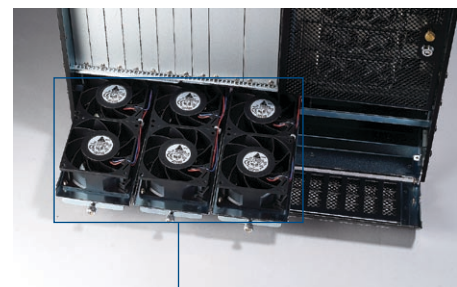


8-slot backplane  
with H.110 CT Bus

AC ATX 560 W + 280 W  
redundant (2+1) power supplies



Built-in alarm module  
(MIC-3924L-AE)



Six 80-CFM front-access  
hot-swappable fan modules