# MIC-3022 Plus IO

## 4U CompactPCI® Plus IO Enclosure for 3U Cards

## Features

- Hosts up to eight 3U Eurocard boards
- CompactPCI® Plus IO Hybrid backplane
- PICMG 2.11power supplies
- ATX power supply option for cost sensitive applications
- Dual system ready

## Introduction

The MIC-3022 is a 4U enclosure designed to host up to 8 slots 3U Eurocard boards. It is assembled by hybrid backplane, with three CompactPCI® peripheral slots and four CompactPCI® Serial slots, connected via a 32bit 33MHz / 66MHz PCI bus and serial bus. Being a hybrid system, it offers an uncomplicated and cost effective migration solution from parallel 3U CompactPCI® to serial CompactPCI® via the CompactPCI PlusIO standard instead of a bridge or an active logic. To save peripheral slot, there is two SATA connectors reserved on hybrid backplane by cable connection for storage extension.

The chassis can be powered by PICMG2.11 CPCI power supplies or an ATX 400W power supply for cost sensitive applications. Four high performance fans provide adequate air flow to all slots, enabling system configurations which can be used in extended temperature environments. With the support of front swappable power supplies and add-in cards as well as a simplified fan replacement mechanism built in, systems based on the MIC-3022 can support a MTTR of 5 minutes or less.

## Specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| Backplane | 3U slots | | System x 1, Peripheral x 7 (80 mm, IEEE1101.11 compliant)<br>CompactPCI® PlusIO system slot x1, on the fourth slot from the left<br>CompactPCI® peripheral slots x3, left<br>CompactPCI® Serial peripheral slots x4, right | | | |
| | Bus Interface | | PCI bus, up to 32-bit/33 MHz/66 MHz<br>Serial bus, up to 5.0 Gb/s | | | |
| | V (I/O) | | +3.3 V/+5 V (selectable) | | | |
| Cooling | Fan | | 2 Blowers (Max 45.6CFM/FAN) | | | |
| Power Supply | Standard CPCI 300W power supply | Input | AC 100 ~ 240 V @ 50 ~ 60 Hz, full range | | | |
| | | | +3.3 V | +5 V | +12 V | -12 V |
| | | Max. Load | 40 A | 40 A | 10 A | 2 A |
| | | Min. Load | 0 A | 1 A | 0 A | 0 A |
| | ATX 400W power supply | Input | AC 100 ~ 240 V @ 50 ~ 60 Hz, full range | | | |
| | | | +3.3 V | +5 V | +12 V | -12 V |
| | | Max. Load | 11.6A | 12.89A | 11.74A | 0.37A |
| | | Min. Load | 0.3A | 0.3A | 0.5A | 0A |
| Environment | | | Operating | | Non-Operating | |
| | Temperature | | 0 ~ 50° C (32 ~ 122° F) | | -40 ~ 70° C (-40 ~ 158° F) | |
| | Humidity | | 10 ~ 95% @ 40° C, non-condensing | | 10 ~ 95% @ 60° C, non-condensing | |
| | Shock | | 10 G | | 30 G | |
| | Vibration | | Frequency range (Hz) | | Test Severity PSD Value | |
| | | Random: Operating, 2G | 5 ~ 10 | | 12 B/Octave | |
| | | | 10 ~ 50 | | 0.02 $g^2$/Hz | |
| | | | 50 ~ 100 | | -12 B/Octave | |
| | | Non-operating, 2G | Test Frequency: 5-500Hz<br>Test Acceleration: 2G<br>Test displacement value: 4.4mm | | | |
| Physical Characteristics | Dimensions (W x H x D) | | 440 x 177 x 295 mm (17.3" x 7" x 11.6") | | | |
| | Weight | | 11 kg | | | |
| Reliability | MTBF | | Backplane | Fan module | Power supply | |
| | | | 800,000 hours | 50,000 hours @ 25 °C | 100,000 hours @ 70% load | |
| Compliance | | | PICMG 2.0 R3.0 CompactPCI Specification<br>PICMG 2.1 R2.0 CompactPCI Hot Swap Specification<br>PICMG 2.11 R3.0 Front-Access Power Connectors Specification | | | |
| | | | RoHS, CE, FCC, UL, CCC | | | |



All product specifications are subject to change without notice

Last updated : 19-Sep-2014

## Backplane Information

| Physical Number | Function | Rear I/O |
|---|---|---|
| 1 | CPCI I/O slot | Yes |
| 2 | CPCI I/O slot | Yes |
| 3 | CPCI I/O slot | Yes |
| 4 | Plus IO System slot | - |
| 5 | CPCI-Serial I/O slot | - |
| 6 | CPCI-Serial I/O slot | - |
| 7 | CPCI-Serial I/O slot | - |
| 8 | CPCI-Serial I/O slot | - |

## Recommended Configurations

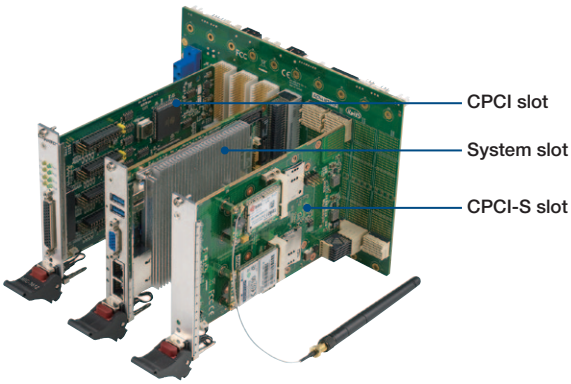
| Enclosure | CPU Board | Front IO Board |
|---|---|---|
| MIC-3022PAE<br>MIC-3022PCE | MIC-3328 | MIC-3954-AE<br>MIC-3954-BE<br>MIC-3953-AE |

## Optional Accessories

| Part Number | Description |
|---|---|
| 96PS-A300WCPC-1 | CPCI 300W Power Supply Unit |
| 1757004391-01 | ATX 400W Power Supply Unit |

## Ordering Information

| Part Number | PCI/Serial | PICMG 2.11 | ATX power SPEC | Description |
|---|---|---|---|---|
| MIC-3022PAE | Yes | - | Yes | 3U CPCI Plus IO enclosure with 400W ATX PSU, single system |
| MIC-3022PCE | Yes | Yes | - | 3U CPCI Plus IO enclosure with 300W CPCI PSU, single system |




## Rear Side

## Front Side