

# MIC-3022 Plus IO

4U CompactPCI® Plus IO  
Enclosure for 3U Cards

## Preliminary



## Features

- Hosts up to eight 3U Eurocard boards
- CompactPCI® Plus IO Hybrid backplane
- PICMG 2.11 power 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 PICMG 2.11 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) CompactPCI® PlusIO system slot x1, on the fourth slot from the left CompactPCI® peripheral slots x3, left CompactPCI® Serial peripheral slots x4, right			
	Bus Interface		PCI bus, up to 32-bit/33 MHz/66 MHz 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
	ATX 400W power supply	Min. Load	0 A	1 A	0 A	0 A
		Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range			
			+3.3 V	+5 V	+12 V	-12 V
Environment	Temperature	Max. Load	11.6A	12.89A	11.74A	0.37A
		Min. Load	0.3A	0.3A	0.5A	0A
	Humidity	Operating	Non-Operating			
			0 ~ 50° C (32 ~ 122° F)			
			-40 ~ 70° C (-40 ~ 158° F)			
	Shock		10 ~ 95% @ 40° C, non-condensing			
			10 ~ 95% @ 60° C, non-condensing			
			10 G			
	Vibration		30 G			
		Test Severity PSD Value				
		1.06G (With CPCI PSU)				
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 PICMG 2.1 R2.0 CompactPCI Hot Swap Specification PICMG 2.11 R3.0 Front-Access Power Connectors Specification				
		RoHS, CE, FCC, UL, CCC				

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	-

Ordering Information

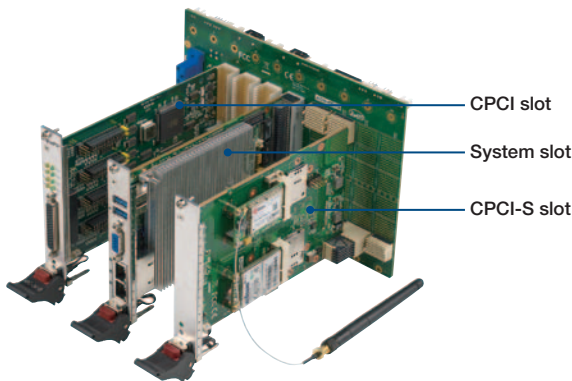
Part Number	PCI/Serial	PICMG 2.11	ATX power SPEC	Description
MIC-3022PAE	Yes	-	Yes	3U CPCI Plus IO enclosure with 400W ATX PSU, single system
MIC-3022PCE	Yes	Yes	-	3U CPCI Plus IO enclosure with 300W CPCI PSU, single system

Recommended Configurations

Enclosure	CPU Board	Front IO Board
MIC-3022PAE MIC-3022PCE	MIC-3328	MIC-3954-AE MIC-3954-BE MIC-3953-AE

Optional Accessories

Part Number	Description
1757004594-01	CPCI 300W Power Supply Unit
1757004391-01	ATX 400W Power Supply Unit



Rear Side



Front Side



AdvancedTCA Boards 1

AdvancedMC Boards 2

CompactPCI & VPX Platforms 3

CompactPCI Enclosures 4

Packetarium Platforms 5

Packetarium Boards 6

Tabletop Platforms 7

1U/2U Rackmount Platforms 8

High Performance Servers 9

Network Switches 10

Peripheral Cards 11

Networking Video Servers 12

Networking Video Boards 13