

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 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) 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		Operating		Non-Operating	
			0 ~ 50° C (32 ~ 122° F)		-40 ~ 70° C (-40 ~ 158° F)	
			Humidity		10 ~ 95% @ 40° C, non-condensing	
	Shock		10 G		30 G	
			Frequency range (Hz)		Test Severity PSD Value	
			5 ~ 10		12 B/Octave	
	Vibration	Random: Operating, 2G	10 ~ 50		0.02 g²/Hz	
			50 ~ 100		-12 B/Octave	
			Non-operating, 2G	Test Frequency: 5-500Hz		
	Test Acceleration: 2G					
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	
			800,000 hours		50,000 hours @ 25 °C	
Compliance			Power supply			
			100,000 hours @ 70% load			
			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	-

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
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

