

MIC-3022

4U CompactPCI® Enclosure for 3U Cards

Preliminary



Features

- Hosts up to eight 3U CompactPCI® boards
- 32bit/66MHz PCI bus 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 CompactPCI 3U cards connected via a 32bit 33MHz or 66MHz PCI bus. The chassis can be powered by PICMG2.11 CPCI power supplies or an ATX 400W power supply for cost sensitive applications. A CPCI power supply supports a wide range of applications in the industrial market requiring a robust, compact and reliable platform. Rear transition modules can be installed for each of the 8 slots to support I/O extension.

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, Rear transition x 8 (80 mm, IEEE1101.11 compliant)				
	Bus Interface	32-bit/33 MHz/66 MHz PCI bus				
	V (I/O)	+3.3 V/+5 V (selectable)				
Cooling	Fan	2 Blowers (Max 45.6CFM/FAN); up to 4 Blowers for dual system				
Power Supply	Standard CPCI 250W PSU	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range			
			+3.3 V	+5 V	+12 V	-12 V
		Max. Load	18 A	25 A	5 A	0.5 A
	Min. Load	0 A	1 A	0 A	0 A	
	ATX 400W PSU	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	Temperature	Operating	0 ~ 50° C (32 ~ 122° F)		Non-Operating	-40 ~ 70° C (-40 ~ 158° F)
		Humidity	10 ~ 95% @ 40° C, non-condensing		10 ~ 95% @ 60° C, non-condensing	
	Shock	10 G				
	Vibration	Random: Operating, 2G	Frequency range (Hz)	Test Severity PSD Value		
			5 ~ 10	12 B/Octave		
		10 ~ 50	0.02 g²/Hz			
Sine: Non-operating, 2G	50 ~ 100	-12 B/Octave				
	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	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						

Ordering Information

Part Number	PCI	PICMG 2.11	ATX power SPEC	Description
MIC-3022AE	Yes	-	Yes	3U CPCI enclosure with 400W ATX PSU, single system
MIC-3022CE	Yes	Yes	-	3U CPCI enclosure with 250W CPCI PSU, single system

Recommended Configurations

Enclosure	CPU Board	Front I/O Board	Rear I/O Board
MIC-3022AE	MIC-3325	MIC-3953-AE	MIC-3525
MIC-3022AE	MIC-3326		-
MIC-3022CE	MIC-3328		-

Optional Accessories

Part Number	Description
1757004516-01	CPCI 250W Power Supply Unit
1757004391-01	ATX 400W Power Supply Unit

Backplane Information

Physical Number	Function	Rear I/O
1	System Slot	Yes
2	CPCI I/O slot	Yes
3	CPCI I/O slot	Yes
4	CPCI I/O slot	Yes
5	CPCI I/O slot	Yes
6	CPCI I/O slot	Yes
7	CPCI I/O slot	Yes
8	CPCI I/O slot	Yes

Rear Side

CPCI Power Supply SKU



ATX Power Supply SKU

