

MIC-3022

4U CompactPCI® Enclosure for 3U Cards



Features

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



Introduction

MIC-3022 is a 4U enclosure designed to host up to 8 CompactPCI 3U cards connected via a 32bit 33MHz or 66MHz PCI bus or serial 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.

The MIC-3022 enclosure is available for two kinds of backplanes; Legacy backplane provides up to 8 peripheral PCI slot while the hybrid backplane offers three PCI slots and four serial slots. 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 slots, there are 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	Legacy backplane	System x 1, Peripheral x 7, Rear transition x 8 (80 mm, IEEE1101.11 compliant) 32-bit/33 MHz/66 MHz PCI bus				
	PlusIO Hybrid backplane	System x 1, Peripheral x 7 (80 mm, IEEE1101.11 compliant) 32-bit/33 MHz/66 MHz PCI bus, serial bus				
	V (I/O)	+3.3 V/+5 V (selectable)				
Cooling	Fan	2 Blowers ;up to 4 Blowers for dual system				
Power Supply	Legacy chassis: CPCI PSU 250W	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range			
			+3.3V	+5V	+12V	-12V
		Max. Load	18A	25A	5A	0.5A
		Min. Load	0A	1A	0A	0A
	PlusIO Hybrid Chassis: CPCI PSU 300W		+3.3V	+5V	+12V	-12V
		Max. Load	40A	40A	10A	2A
		Min. Load	0A	1A	0A	0A
	Legacy/PlusIO Hybrid Chassis: ATX PSU 400W	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range			
		+3.3V	+5V	+12V	-12V	
Max. Load		11.6A	12.89A	11.74A	0.37A	
	Min. Load	0.3A	0.3A	0.5A	0A	
Environment	Temperature	Operation: 0 ~ 50° C (32 ~ 122° F); Storage: -40 ~ 70° C (-40 ~ 158° F)				
	Humidity	10 ~ 95% @ 40° C, non-condensing 10 ~ 95% @ 60° C, non-condensing				
	Shock	Operation: 10G; Non Operation 30G				
	Vibration	Random: Operating: 2G Sine: Non-operating: 2G				
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

MIC-3022 PlusIO Hybrid		
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	-

MIC-3022 Legacy		
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

Recommended Configurations

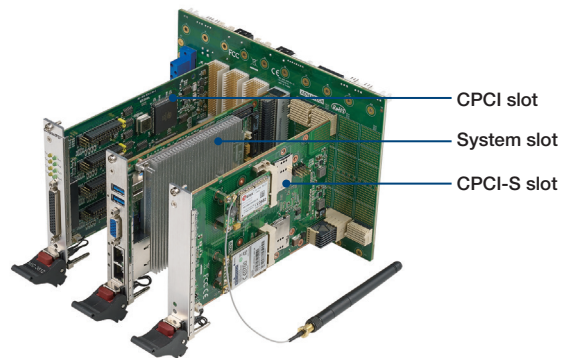
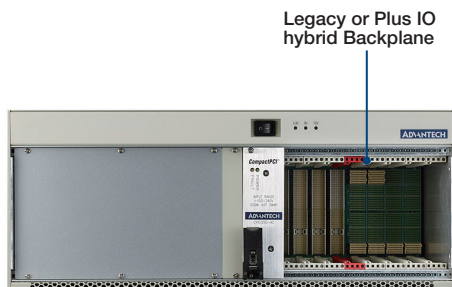
Enclosure	CPU Board	Front I/O Board
MIC-3022AE MIC-3022CE MIC-3022PAE MIC-3022PCE	MIC-3329 MIC-3328	MIC-3953;MIC-3954; MIC-3955; MIC-3957;MIC-3958

Ordering Information

Part Number	PCI/Serial	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
MIC-3022PCE	Yes	Yes	-	3U CPCI Plus IO enclosure with 300W CPCI PSU, single system

Optional Accessories

Part Number	Description
1757004516-01	CPCI 250W Power Supply Unit
1757004391-01	ATX 400W Power Supply Unit
1757004594-01	CPCI 300W Power Supply Unit
1757004391-01	ATX 400W Power Supply Unit



CPCI PSU Rear side



ATX PSU Rear side