

# MIC-3022

## 4U Height 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.

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
		Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range			
	Legacy/PlusIO Hybrid Chassis: ATX PSU 400W		+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

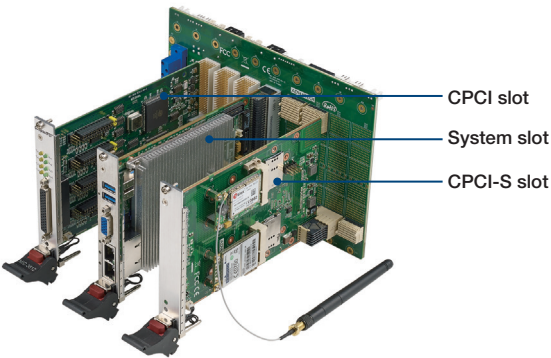
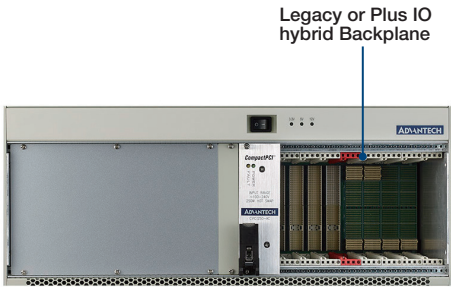
MIC-3022PCE PlusIO Hybrid backplane			MIC-3022AE & MIC-3022CE Legacy backplane	
Slot NO.	Slot Function	Remark	Function	Remark
1	CPCI I/O slot	RIO support	System Slot	RIO support
2	CPCI I/O slot	RIO support	CPCI I/O slot	
3	CPCI I/O slot	RIO support	CPCI I/O slot	
4	Plus IO System slot	NA	CPCI I/O slot	
5	CPCI-Serial I/O Slot	Ethernet signal x1; USB signal x1 PCIe signal x1	CPCI I/O slot	
6	CPCI-Serial I/O Slot	Ethernet signal x1; USB signal x1 PCIe signal x1	CPCI I/O slot	
7	CPCI-Serial I/O Slot	USB signal x1 PCIe signal x1 SATA signal x1	CPCI I/O slot	
8	CPCI-Serial I/O Slot	USB signal x1 PCIe signal x1 SATA signal x1	CPCI I/O slot	

Recommended Configurations

Enclosure	CPU Board	Front I/O Board
MIC-3022AE MIC-3022CE MIC-3022PCE	MIC-3329 MIC-3328 MIC-3332	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 legacy backplane
MIC-3022CE	Yes	Yes	-	3U CPCI enclosure with 250W CPCI PSU, single legacy backplane
MIC-3022PCE	Yes	Yes	-	3U CPCI Plus IO enclosure with 300W CPCI PSU, single plusIO backplane



CPCI PSU Rear side



ATX PSU Rear side

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