MIC-3023

3U CompactPCI® Enclosure for 3U Cards



Features

- 8-slot CompactPCI® Legacy or Plus IO Hybrid backplane
- PICMG2.11 47 pin CPCI power interface
- Mini-fan or fanless design
- Rear IO support option
- 11 or 21 slots dimension aluminum anode enclosure
- PICMG 2.0, PICMG2.11, PICMG 2.3 PlusIO

RoHS COMPLIANT 2002/95/EC

Introduction

MIC-3023 is a 11 or 21 slots 19 inch standard 3U CPCI enclosure with two kinds of backplane options, option one is equipped with one or two 8-slot legacy backplane-connected via a 32bit 33MHz or 66MHz PCI bus. Option two is equipped with a 8-slot hybrid Plus IO backplane which offers 4 x SATA 2.0, 4 x USB 2.0, 4 x PCIe Gen 2 x1, 2 x GbE Ethernet interface Compact PCI serial peripheral slot for user extension ,those two types of backplane is compliant with PICMG2.11 CPCI power supply.

The Enclosure is designed to support fan less or mini-fan. There are total eight mini fans assembled in top and bottom cover side to optimize the system heat dissipation effect with easy maintenance mechanical design.

Specifications

Backplane	Legacy backplane	47pin CPCI power x 1, System x 1, PCI peripheral x 7, RIO depth 80mm 32bit/33MHz or 66MHz PCI Bus	
	Plus IO backplane	47pin CPCI power x 1, System x 1, PCI periphera x 3, CPCI-Serial peripheral x 4 (2 x GbE; 4 x USB2,0; 4 x SATA2.0; 4 x PCIe), RIO depth 80mm	
	V (I/O)	+3.3V/5V	
Cooling		Fan less or mini-fan (speed: 5.4CFM/unit)	
Environment		Operating	Non-Operating
	Temperature	-40 ~ 85 °C (-40 ~ 185 °F)	-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Shock	30 G, 11ms, each axis three times	
	Vibration	2G rms	
Physical Characteristics		MIC-3023 with 11 slots	MIC-3023 with 21 slots
	Dimensions (W x H x D)	279.4 x 132.5 x 295.5 mm	400.8 x 132.5 x 295.5 mm
	Weight	2.60kg	3.50kg
Compliance		PICMG 2.0 R3.0 CompactPCI Specification PICMG 2.1 R2.0 CompactPCI Hot Swap Specification PICMG 2.11 R3.0 Power Interface Specification PICMG 2.3 PlusIO Specification	

Backplane Information

Legacy Backplane			Plus I/O Backplane		
Slot NO.	**Slot Function**	**Remark**	**Slot NO.**	**Slot Function**	**Remark**
1	System Slot	RIO Support	1	CPCI I/O slot	RIO Support
2	CPCI I/O slot		2	CPCI I/O slot	RIO Support
3	CPCI I/O slot		3	CPCI I/O slot	RIO Support
4	CPCI I/O slot		4	System Slot	2 x GbE, 4 x USB2.0, 4 x SATA2.0, 4 x PCIe
5	CPCI I/O slot		5	CPCI-Serial peripheral slot	1 x GbE,1 x USB2,0,1 x SATA2.0,1 x PCIe
6	CPCI I/O slot		6	CPCI-Serial peripheral slot	1 x GbE,1 x USB2,0,1 x SATA2.0,1 x PCIe
7	CPCI I/O slot		7	CPCI-Serial peripheral slot	1 x USB2,0,1 x SATA2.0,1 x PCIe
8	CPCI I/O slot		8	CPCI-Serial peripheral slot	1 x USB2,0,1 x SATA2.0,1 x PCIe

All product specifications are subject to change without notice.

Last updated: 22-Oct-2019

Ordering Information

P/N	Description	Enclosure Slots	Single or Dual Backplane	Fan	RIO	Dimension (W x D x H)
MIC-3023P2-S1E	MIC-3023S 3U Plus IO BP W.RIO fan	11	1	√	√	279.4 x 295.5 x 132.5 mm
MIC-3023L1-D1E	MIC-3023L 3U 2x8 legacy BP W.RIO	21	2	x	√	400.8 x 295.5 x 132.5 mm
MIC-3023L2-S1E	MIC-3023L 3U 1x8 legacy BP W.RIO fan	21	1	√	√	400.8 x 295.5 x 132.5 mm

Recommended Configurations

	CPU Board			Peripheral I/O Board		
P/N	MIC-3328	MIC-3329	MIC-3332	MIC-3955	MIC-3958	MIC-3954
MIC-3023P2-S1E	√	x	√	√	√	√
MIC-3023L1-D1E	x	√	x	√	√	x
MIC-3023L2-S1E	√	x	√	√	√	x

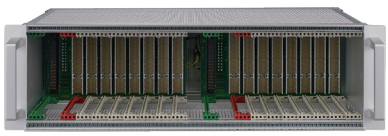
CPU and Peripheral I/O Board Description

Models	Description
MIC-3328	3U CompactPCI 3rd generation Ivy bridge Intel® Core™ i3/i7 Processor Blades, Plus IO support optional
MIC-3329	3U CompactPCI Atom Bay Trail Processor Blades
MIC-3332	3U CompactPCI 6rd generation Skylake Intel® Core™ i7/Xeon E3 Processor Blades, Plus IO support optional
MIC-3955	3U CompactPCI RS485/422/232 Serial card
MIC-3958	3U CompactPCI GbE Ethernet Card
MIC-3954	3U CompactPCI-Serial SSD/HDD or Mini-PCIE Carrier card
MIC-3956	3U CompactPCI 110V/200W DC power module with M12 input connector
96PS-A250WCPC	3U CompactPCI 250W AC power module

Note:

- MIC-3328 and MIC-3332 (Core i CPU)are recommended to be installed in MIC-3023L2-S1E and MIC-3023P2-S1E with fan air-forced for getting better CPU performance
- For FAN support inquiry, please contact the local Advantech representative

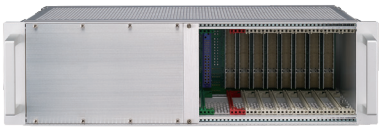
Product Picture



MIC-3023L1-D1E



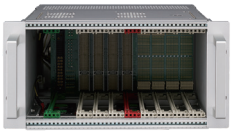
System Configuration Demo



MIC-3023L2-S1E



System Configuration Demo



MIC-3023P2-S1E



System Configuration Demo