MIC-300B

CompactPCI® Serial Enclosure for 3U Cards

Features

- 3U height 84HP fanless enclosure with 8-slot CPCI-Serial backplane
- Support PCIe(Gen3), SATA(Gen3), USB2.0, Ethernet interface
- Power option1: DC to DC wide range 24 - 160V_{DC} input, compliant with EN50155
  Power option2: AC-DC hot-swappable CompactPCI Serial dual output (with 5V standby) 312 Watts module
- Support Ethernet Switch card
- PICMG CompactPCI Serial (CPCI-S.0 R2.0) compliant

Introduction

The MIC-300B is a standard fanless enclosure available in 3U form factor for CompactPCI® Serial applications. It comes in two configurations: one featuring a 150 W power supply module and another featuring a CPCI-S 300W AC power. The CPCI-S backplane is designed with a right-aligned system slot and six peripheral slots, The last peripheral slot can support Ethernet Switch card. The remaining space on the left side can be used by customers for their own backplane designs or other installations. The CompactPCI Serial backplane supports various protocols, including PCIe up to Gen 3, SATA Gen 3, USB 2.0, and Ethernet.

Specifications

Backplane	CPCI-Serial backplane 10-Slot, Systemx1, Peripheralx6, power slot x 2,blank slot x 1, no RIO		
support		MIC-300B0-A3S1	MIC-300B1-C3S1
	Input Range	24V-160VDC	90-264VAC
	Output Wattage	12V	Vo1: +12V, standby Vo2: +5V
	Output Current (typ.)	12.5A	Vo1: 25A, standby Vo2: 2.5A
	Output Wattage	150W (Ta 55°C,fanless) 70W (Ta 70°C,fanless)	312W (Ta 55°C, Cooling 200LFM, Typ 110V input) 185W (Ta 70°C, Cooling 200LFM, Typ 110V input)
Power Supply		Operating	Non-Operating
Environment	Temperature	-40~ 70°C (32 ~ 158° F)	-40 ~ 85°C (-104 ~ 185°F)
	Humidity	95% @ 40°C, non-condensing	95% @ 60°C, non-condensing
	Shock	10G, 11ms, each axis three times	
	Vibration	2G rms	
Physical Characteristics (Dimensions (W x H x D))	482.6 x 132.55 x 200 mm		
Safety/EMC	Emissions	EN50121-3-2/ EN55032 class A/B	EN55032, FCC Class B
	ESD	EN61000-4-2, air±8kV, contact±6kV, Class A	EN61000-4-2, air±8kV, contact±6kV, Class A
	Radiated immunity	EN61000-4-3, 20V/m, Class A	EN61000-4-3, 10V/m, Class A
	Fast transient	EN61000-4-4, ±2kV, Class A	EN61000-4-4, ±2kV, Class A
	Surge	EN61000-4-5, ±2kV, Class A	EN61000-4-5, ±2kV, Class A
	Conducted immunity	EN61000-4-6, 10Vrms, Class A	EN61000-4-6,10Vrms, Class A
	Magnetic field immunity	EN61000-4-8, 10 A/m, Class A	EN61000-4-8, 10 A/m,, Class A
	Hold_up time	30ms	18ms
Compliance	PICMG® CompactPCI® Serial R2.0		

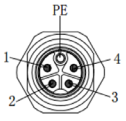
Ordering Information

PN	Description	Chassis Slot QTY	Backplane slot	Power	Backplane QTY	Fan	RIO	Dimensions (W x D x H)
MIC-300B0-A3S1	MIC-300B 3U CPCI-S 84HP fanless, 150W power module	21	10	1*150W DC to DC	1	×	×	482.6 x 200 x 132.50 mm
MIC-300B1-C3S1	MIC-300B 3U CPCI-S 84HP fanless 300W AC power supply	21	10	1*312W AC to DC	1	×	×	482.6 x 200 x 132.50 mm

Optional Accessory

Part Number	Description
1960117152S001	3U 4HP Blank Panel for CPCI Anodizing
1960117153S001	3U 8HP Blank Panel for CPCI Anodizing
1700034298-01	External M12 K-Coded 5 pin Female power cable 100cm

DC in power M12 connector pin define



pin	Signal Name	pin	Signal Name
1	V+	3	V-
2	V-	4	V+
PE	Earth ground		

Related Main Board and Front I/O Board

Models	Description
MIC-336	3U CPCI-S CPU board
MIC-3954D	3U CPCI-Serial quad M.2 carrier board
MIC-3954E	3U CPCI-Serial quad Mini-PCIe carrier board for Wi-Fi/LTE/ GPS module
MIC-3954F	3U CPCI-S 4 x USB typeA, 1 x M.2 E key carrier board
MIC-3820	3U CPCI-Serial 2.5" SSD carrier board

Models	Description
MIC-3811	3U CPCI-Serial dual mini PCIe carrier for Wi-Fi/BT/i-Door module
MIC-3860	3U CPCI-Serial 4 x RJ45/4 x M12 2.5 Gbps LAN board
MIC-3840	3U CPCI-Serial 8-port serial communication board
MIC-3850	3U CPCI-S LAN switch board

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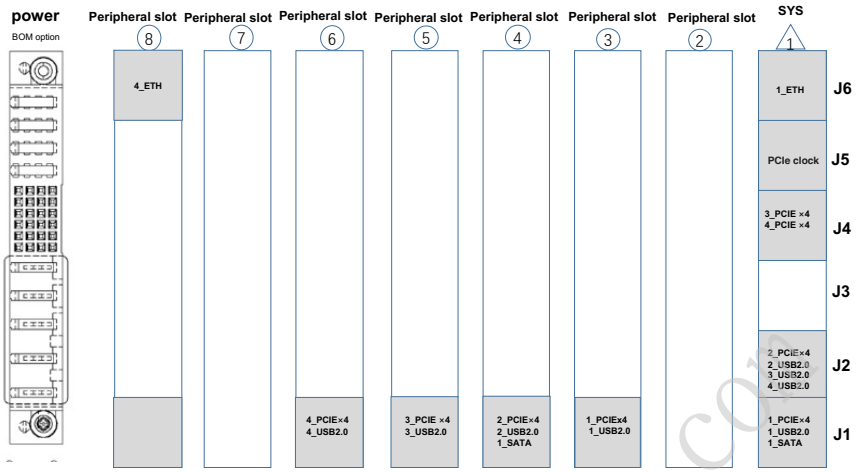
All product specifications are subject to change without notice.

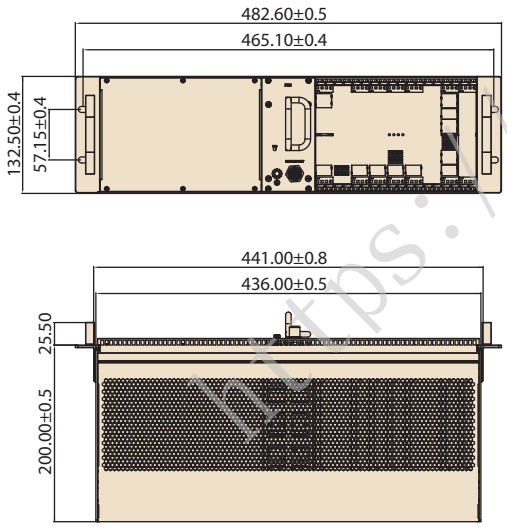
Backplane Topology



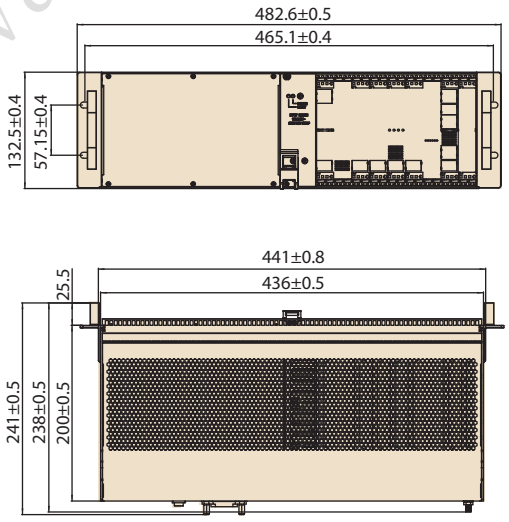
Dimensions

Unit: mm [inch]

MIC-300B0-A3S1



MIC-300B1-C3S1



Front View

MIC-300B0-A3S1

MIC-300B1-C3S1

Rear View

MIC-300B0-A3S1

MIC-300B1-C3S1

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