# **MIC-3821**

## 3U CompactPCI® Serial M.2 PCIe/NVMe SSD Carrier Board



#### **Features**

- 3U Height CompactPCI Serial interface peripheral board
- Carrier board for max quad M.2 PCIe/NVMe module
- Designed to meet EN50155 & EN50121-3-2 & EN50121-4
- PCI-SIG PCI Express M.2 Specification compliant
- PICMG CompactPCI Serial (CPCI-S.0 R2.0) compliant

## Introduction

MIC-3821 is a 3U-4HP-height peripheral slot board for a CompactPCI® Serial system, equipped with quad 20 2 or let modules. Each M.2 M-Key socket can accommodate an NVMe-type SSD module at max PCIe 3.0 x4 speed. One of the sockets can also support SATA III mode depending on backplane resources for added efficiency. It is suitable for 2230/2242/2260/2280 module dimensions.

The maximum PCIe data transfer rate for Gen2 (5 GT/s) or Gen3 (8 GT/s) usually depends on the CPU and and the backplane slot selected. To achieve optimum performance via all M.2 NVMe module sockets simultaneously, a PCI Express® Gen3 x8 routed from P1/P2 (Completer J1® Serial fat pipe slot) or at least a PCI Express® Gen3 x4 from a P1-enabled backplane slot is recommended. P6 comes unassembled by default, and can be utilized or actieve mechanical stability. It can also provide one GbE interface activated by the CPU card by user request.

MIC-3821 provides each M.2 slot up to 3.3V/4.5A of continuous current to reserve er out to a up power budget for high-performance modules. The card can be configured as individual storage or soft RAID operation in various industrial applications.

# **Specifications**

Backplane Interface		1 × PCle ×4 or x8 from P1/P2 1 × C'>E from P6 on request	
PCIe switch	On-hard PCI Express® Gen. 3 (8 GT/s) packet switch PI7C9X3G1632GP		
Front Panel		Default: Power LED & NvME LED	
		1 x RJ-45 GbE port on request	
Dimension		3U/4HP, 100 x 160 mm	
OS support		Depends on module	
Environment		Operating	Non-Operating
	Temporature	-40 ~ 70°C (-40 ~ 158°F) (depends on module spec)	-40 ~ 85°C (-40 ~ 176°F)
	Humidity	95% @ 40°C, non-condensing	95% @ 60°C, non-condensing
	Vibration	2G rms (5~500 Hz)	

# **Ordering Information**

 Part Number
 Description

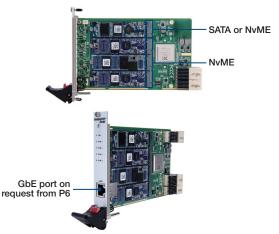
 MIC-3821-A1S1
 MIC-3812 3U CPCI-S Quad M.2 M-Key NvME Carrier

 Note: Please contact local sales for GbE/USB I/O features.
 Note: State Stat

## **Related Products**

CPU board	Description	
MIC-330 Series	3U CPCI-Serial 9th Gen Intel® Processor Blade	
MIC-330V2 Series	3U CPCI-Serial 11th Gen Intel <sup>®</sup> Processor Blade	
Chassis & Power	Description	
MIC-300A Series	3U CPCI-Serial 84HP/44HP width, 3U/4U height chassis, with 8-slot backplane & mini fan	
MIC-3890	3U CPCI-Serial DC-DC power module, 110 V in/ 12 V & 5 V output, 250 W	
XMIC330-HAC300S	3U CPCI-Serial AC/DC power module, 12 V & 5 V output, 300 W	

# **Product Pictures**



AD\ANTECH CPCI Boards & Enclosures
All product specifications are subject to change without notice.