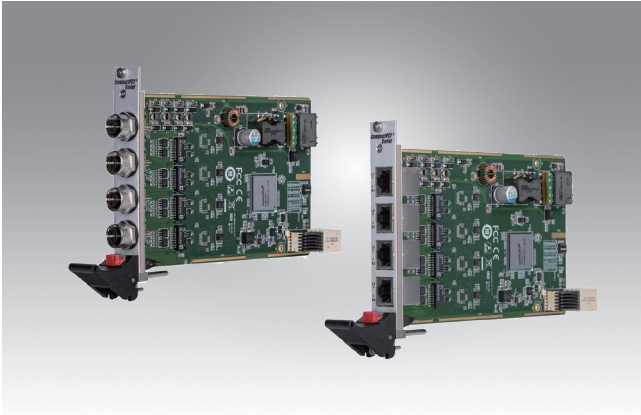


# MIC-3860

## 3U CompactPCI® Serial 4 Ports 2.5GBASE-T Ethernet Board



### Features

- Intel® I226 IT Ethernet controller
- Up to four RJ-45 or four X-code M12 connectors on front panel
- Reserved PoE/PoE plus power sourcing support
- Designed to meet EN50121-3-2, EN50121-4 and EN50155 Standards
- PICMG CompactPCI Serial (CPCI-S.0 R2.0) compliant

EN 50121-3-2

EN 50121-4

EN 50155

CE FCC

RoHS  
COMPLIANT  
2002/95/EC

### Introduction

The Advantech MIC-3860 series is a CPCI-S.0 standard-compliant peripheral board. It is controlled by a PCIe switch derived from the backplane connector P1 and is equipped with four Intel® I226-IT networking controllers connected to RJ-45/X-code M12 front panel connectors. The board offers four different kinds of features, providing four RJ-45/X-code M12 individually at 10BASE-T, 100BASE-TX, 1000BASE-T, and 2.5GBASE-T speeds. Two SKUs can support Power over Ethernet (PoE) PSE functions on all ports to supply other devices with power. The default PoE complies with 802.3af, and 802.3at is reserved by user request. Additionally, there are two LEDs for each port to indicate link and activity status.

The MIC-3860 is designed to meet EN50155, EN50121-3-2, and EN50121-4 standards. With its high capabilities in mechanical, EMC, and safety, as well as a wide range of environmental requirements, it is especially suited for applications in harsh environments like railway and military.

### Specifications

Ethernet Interface	4 x 10BASE-T, 100BASE-T, 1000BASE-T and 2.5GBASE-T interface IEEE802.3x support	
Front Panel	4 x RJ-45 or 4 x X-code M12 connectors LED indicators: LNK: (2.5 Gbps: green; 1 Gbps: orange; 100 Mbps & 10 Mbps: off); ACT: green blink	
Power Over Ethernet Features	PoE functions on all ports <ul style="list-style-type: none"><li>▪ PSE (Power Sourcing Equipment) function</li><li>▪ Supports supply classes 0 to 3 for four Ethernet connectors at default PoE SKUs (comply with 802.3af)</li><li>▪ Reserved PoE plus function can support to supply classes 0 to 4 (comply to 802.3at) by user request</li><li>▪ Supplies up to four powered devices (up to 60 W total)</li></ul>	
Dimension	3U/4HP, 100 mm x 160 mm Weight: 200 g	
OS Support	Windows 10, Linux (upstream kernel release 5.8 and beyond), VxWorks	
Dielectric Withstanding Voltage	MIC-3860-A1S1: 1.5 KV AC	
	MIC-3860-B1S1: 1 KV AC	
	MIC-3860-C1S1: 1.5 KV AC	
	MIC-3860-D1S1: 1 KV AC	
Environment	Operating	Non-Operating
	Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
	Humidity	95% @ 40°C, non-condensing
	Shock	10 G, 11 ms, each axis three times, operation mode
	Vibration	2 Grms, random (5 Hz ~ 500 Hz)

### Ordering Information

Part Number	Description	PoE(802.3af) Support
MIC-3860-A1S1	MIC-3860 3U CPCI-S 4 x 2.5 Gbps RJ-45 Ethernet board	No
MIC-3860-B1S1	MIC-3860 3U CPCI-S 4 x 2.5 Gbps M12 Ethernet board	No
MIC-3860-C1S1	MIC-3860 3U CPCI-S 4 x 2.5 Gbps RJ-45 Ethernet board	Yes
MIC-3860-D1S1	MIC-3860 3U CPCI-S 4 x 2.5 Gbps M12 Ethernet board	Yes

Note: PoE plus (802.3 at) is available by user request.

### Related Products

CPU Board	Description
MIC-330 Series	3U CPCI-Serial 9th Gen. Intel® processor blade
MIC-330V2 Series	3U CPCI-Serial Intel® 11th Gen. 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 input / 12 V & 5 V output, 250 W
XMIC330-HAC300S	3U CPCI-Serial AC/DC power module, 12 V & 5 V output, 300 W

### Product Picture



MIC-3860-A1S1  
MIC-3860-C1S1 (with PoE LEDs)



MIC-3860-B1S1  
MIC-3860-D1S1 (with PoE LEDs)