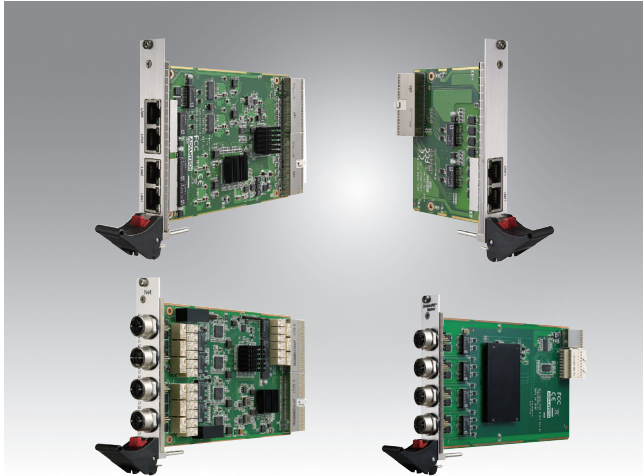


MIC-3958 Ethernet Card

3U CompactPCI® 4 Ports Gigabit Ethernet Card



Features

- Up to 4x i210 or 1xi350-AM4 Intel Ethernet Controller
- 32bit 33/66MHz PCI or PCIe bus
- Up to 4x RJ45 or X-code M12 connector on front panel
- LAN Bypass and RIO spec reserved per request
- PICMG 2.0 Rev. 3.0, PICMG EXP.0 R2.0 compatible

Fully Compliant with
EN 50121-4

Fully Certified with
EN 50155

CE FCC



Introduction

The MIC-3958 series, 3U/4HP CompactPCI form factor, is a Gigabit ethernet peripheral card equipped with Intel i210 or i350-AM4 controllers in different SKUs. 3 different kinds of features as MIC-3958A and MIC-3958B series provides four RJ45 or four X-code M12 Gigabit Ethernet ports with two switchable to the rear transition module, both SKUs are routed PCI bus to backplane; MIC-3958C series provides four X-code M12 Gigabit Ethernet ports but is routed PCIe bus to backplane, higher bandwidth than MIC-3958A and MIC-3958B.

MIC-3958 is designed to meet EN50155 and EN50121-4, with its high capabilities on mechanical, EMC, safety and wide range of environment requirements, it is especially suited for applications in harsh environment like railway and military.

Specifications

Ethernet Interface	<ul style="list-style-type: none"> ▪ Four 10/100/1000 Base-T interface ▪ IEEE802.3x Support ▪ MIC-3958A/MIC-3958B: 32bit,33/66MHz PCI bus ▪ MIC-3958C: One PCIe4 link, PCIe to i350-AM4 chipset 		
Front Panel	<ul style="list-style-type: none"> ▪ Four standard RJ45 or Four X-code M12 connectors (2 or 4 ethernet interfaces are shared between front and rear board) ▪ LED indicators: LNK:(100Mb/s:Green, 1000Mb/s:Orange); ACT: Green Blink 		
Dimension	<ul style="list-style-type: none"> ▪ 3U/4HP, 100x160mm ▪ Weight:200g 		
OS support	Windows7/10, Vxworks 6.9/7.0, Linux Centos6.5/6.6		
Power Consumption	Test Environment: windows OS run Passmark burn in 10min <ul style="list-style-type: none"> ▪ MIC-3958A/MIC-3958B: 5V/10W ▪ MIC-3958C: 3.3V/6W 		
Isolation Protection	<ul style="list-style-type: none"> ▪ MIC-3958A: 1KV AC (ethernet signal to chassis ground); 1.5KV AC (ethernet signal to digital ground) ▪ MIC-3958B: 1KV AC (ethernet signal to chassis ground); 1 KV AC (ethernet signal to digital ground) ▪ MIC-3958C: 1.2KV AC (ethernet signal to chassis ground); 1.5KV AC (ethernet signal to digital ground) Note: Test <20mA		
Dielectric Withstanding Voltage	<ul style="list-style-type: none"> ▪ MIC-3958A: 840V AC, chassis ground to digital ground ▪ MIC-3958B:1KV AC, chassis ground to digital ground ▪ MIC-3958C: 1.5KV AC, chassis ground to digital ground Note: Test chassis ground to digital ground,<20mA		
Environment	Operating	Non-Operating	
	Temperature	-40 ~ 70° C (-40 ~ 158° F)	-40 ~ 80° C (-40 ~ 176° F)
	Humidity	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 60°C, non-condensing
	Shock	3 G, 30ms, each axis three times	
	Vibration	2G rms	

Ordering Information

	Front Board ⁷					Rear Board
	Front Panel	Controller	Bus interface	On Board Features	RTM	Rear Panel
MIC-3958A1-S1E ¹	4 x RJ45 Connector, LAN LED ⁵	i210	PCI	-	Yes	-
MIC-3958B1-S1E ¹	4 x M12 Connector, LAN LED	i210	PCI	2 x Pair LAN Bypass ³	By Request ⁴	-
MIC-3958C1-S1E ²	4 x M12 Connector, LAN LED	i350-AM4	PCI Express ⁶	-	-	-
MIC-3958R1-S1E	-	-	-	-	-	2 x RJ45 Connector, LAN LED ⁵

Note:

1. 4 ethernet interfaces share 1 Gbit/s data transfer rate.
2. 1 Gbit/s data transfer rate for each interface when 4 interfaces are used simultaneously.
3. LAN bypass LED Connect: ACT(Green), Link (Off); Disconnect: ACT(Green Blink), Link (Off).
4. RTM board is based on customer request, 1 pair LAN Bypass reserved to RIO.
5. MIC-3958R1-S1E is compatible to MIC-3958A1-S1E, they share two Ethernet interfaces, switchable by on front board jumper "SW1"; The default setting of "SW1" is for 4 ports RJ45 on front board.
6. MIC-3958C's connector is not legacy 2mm HM, need consult sales for compatible backplane.
7. No accessory M12 cable, please contact local sales for cable spec.

Related Products

CPU board	Description
MIC-3328 Series	3U CompactPCI 3rd generation Ivy bridge Intel® Core™ i3/i7 Processor Blades
MIC-3329 Series	3U CompactPCI Baytrail Intel® Atom™ Low power Processor Blades
MIC-3332 Series	3U CompactPCI 6th generation Skylake Intel® Core™ i7/Xeon E3 Processor Blades

Products Picture



MIC-3958A1-S1E



MIC-3958R1-S1E



MIC-3958B1-S1E



MIC-3958C1-S1E