

MEC-LAN-PL604

PCI-e low profile 4 port 2.5GbE isolated Ethernet board

Product Datasheet



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Revision History

Date	Revision	Description
2025.05.05	1.0	First Released

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1. Product Overview

1.1 Introduction

MEC-LAN-PL604 is a quad isolated 2.5GbE LAN module for embedded PC. The card follows the PCI-e standard which is compliant with PCI Express x 4 classification. This board fits in any host computer that has PCI-e card slots. MEC-LAN-PL604 is a highly cost-effective solution to expand 2.5Gigabit network for your computer, desktop tower, mini workstation, or server computer.

MEC-LAN-PL604 has four Ethernet ports that support auto-negotiation 10/100/1000/2500Mbps Ethernet connection with IEEE 802.3x and IEEE 802.3z flow control.

MEC-LAN-PL604 uses high performance, efficiency, and stability Intel I226 Gigabit Ethernet Controller.

MEC-LAN-PL604 is designed with flexibilities for many different application and accessories (standard bracket and low profile bracket) are included in the standard package.

1.2 Feature

- Quad-Lane (x4) PCI-Express with throughput up to 5.0/2.5GT/s
- Fully compliant with PCI-Express Base Specification Rev.2.0
- Integrated 10/100/1000/2500Mbps transceiver
- IEEE 802.3, IEEE802.3u, IEEE 802.3ab and IEEE 802.3bz compliant
- IEEE 802.3x and IEEE 802.3z flow control
- Support four isolated 2.5GbE LAN ports
- Support Wake-on-LAN
- Smaller than low profile form factors
- Voltage converter design provides a stable operating voltage

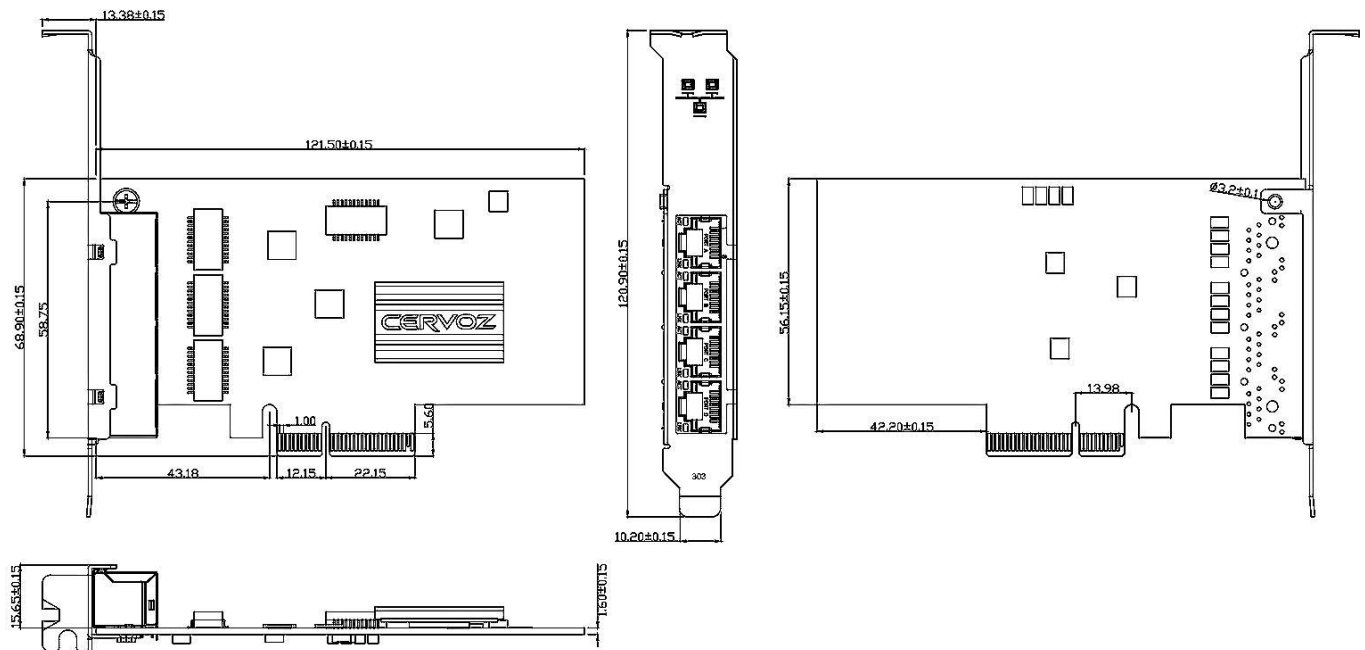
2. Product Specifications

General	
PCI-Express Revision	PCI-Express Base Specification Rev. 2.0
PCI-Express Electromechanical Revision	PCI-Express Base Specification Rev. 2.0
Hardware	
Controller	Intel I226-IT x4
Bus	Quad-Lane (x4) PCI-Express with throughput up to 5.0/2.5GT/s
Interface (Connector)	
Ethernet 10/100/1000/2500Mbps	4 (RJ45)
Technology	
Standards	IEEE 802.3 for 10Base-TE IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3bz for 2500Base-T
Flow Control	IEEE 802.3x and IEEE 802.3z flow control
Wake On LAN	Yes
Isolated 2.5GbE LAN port	Quad
Driver Support	
Operating Systems	Win 10, Win 11
Power Requirement	
Power Consumption	550mA @12V
Dimensions	
Width x Length (mm)	68.90 x 121.50
Environmental Limits	
Operating Temperature	-40°C ~ 85°C
Storage Temperature	-40°C ~ 125°C
Humidity (non-condensing)	5% ~ 95%

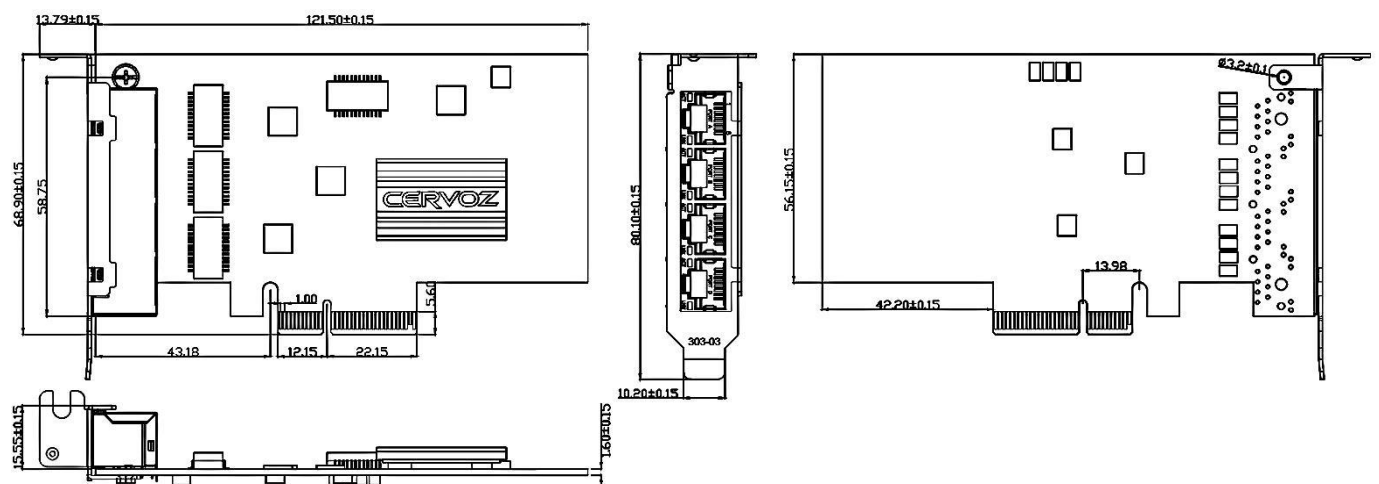
Regulatory Approvals	
EMC	CE, FCC, UKCA
EMI	EN 55032, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B, Class B
EMS	EN 55035, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Reliability	
Warranty	3 years
MTBF	6,329,507 Hours

3. Dimensions

3.1 with standard bracket



3.2 with low profile bracket



4. Package Checklist

- PCI-e Low Profile LAN Card (with Heatsink x1) x 1
- Standard Bracket x 1
- Low Profile Bracket x 1
- Quick Installation Guide (Printed) x 1

