MEC-LAN-P004

PCI-e 4 port 10/100/1000 Ethernet card with PoE+ Module

- Quad-Lane (x4) PCI-Express with throughput up to 5.0/2.5Gbps
- Fully compliant with PCI-Express Base Specification Rev. 2.0
- Integrated 10/100/1000Mbps transceiver
- Support four isolated GbE LAN ports
- Four independent PSE channels
- Support Wake-on-LAN
- Complies with IEEE 802.3at
- Support power input 12V ~ 24V from 6pin PCIE-ATX

Overview

MEC-LAN-P004 is a quad isolated GbE 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-P004 is a highly cost-effective solution to expand Gigabit network for your computer. External Power over Ethernet Plus (PoE+) module ensures reliable power and data transfer and supplies more power than standard PoE.

Top Performance

MEC-LAN-P004 has four Ethernet ports that support auto-negotiation 10/100/1000Mbps Ethernet connection with IEEE 802.3x flow control.

Intel Ethernet Chipset

MEC-LAN-P004 uses high performance, efficiency, and stability Intel I210 Gigabit Ethernet Controller.

High Usability

MEC-LAN-P004 is designed with flexibilities for many different application and accessories (heat sink, bracket) are included in the standard package.

Specifications

General

PCI-Express Revision:
PCI-Express Base Specification Rev. 2.0
PCI-Express Electromechanical Revision:
PCI-Express Base Specification Rev. 2.0

Form Factor
Standard PCI-Express GEN2x4
Interface (Connector)
Ethernet 10/100/1000: 4 (RJ45)

Hardware

Controllers: Intel I210 x 4
Bus: Quad-Lane (x4) PCI-Express with throughput up to 5.0/2.5Gbps

Technology

Standard: • IEEE 802.3 for 10BaseT
   • IEEE 802.3u for 100BaseT(X)
   • IEEE 802.3ab for 1000BaseT(X)
   • IEEE 802.3z for 1000BaseX
   • IEEE 802.3af
   • IEEE 802.3at
Flow Control: IEEE 802.3x flow control
Wake on LAN: Yes
Isolated GbE LAN port: Yes
Isolated PoE+: No

Driver Support

Operating Systems: Win 7, Win 8, Win 10

Dimensions

Width x Length (mm): 168.00 x 111.00

Power Requirement

Power Consumption: 1273mA@3.3
PoE+: Maximum 5A @ 12V w/ PCIe slot
   Maximum 10A @ 12V w/ 6 pin PCIE-ATX

Environmental Limits

Operating Temperature: 0°C ~ 70°C
Storage Temperature: -40°C ~ 95°C
Humidity: 5% ~ 95%

Regulatory Approvals

EMC: CE, FCC
EMI: EN 55032, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B Class B
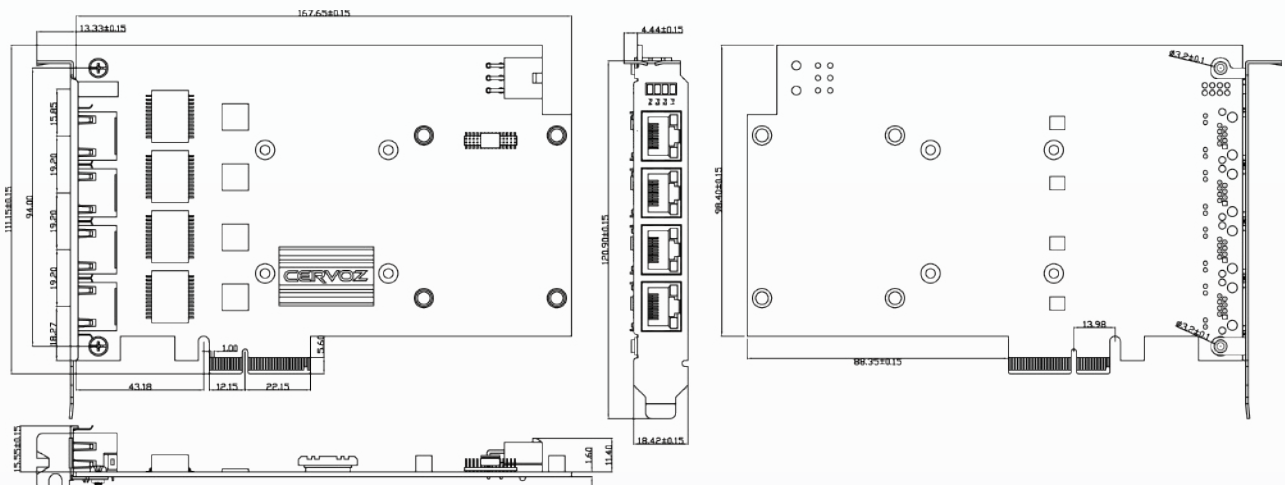**EMS:** EN 55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
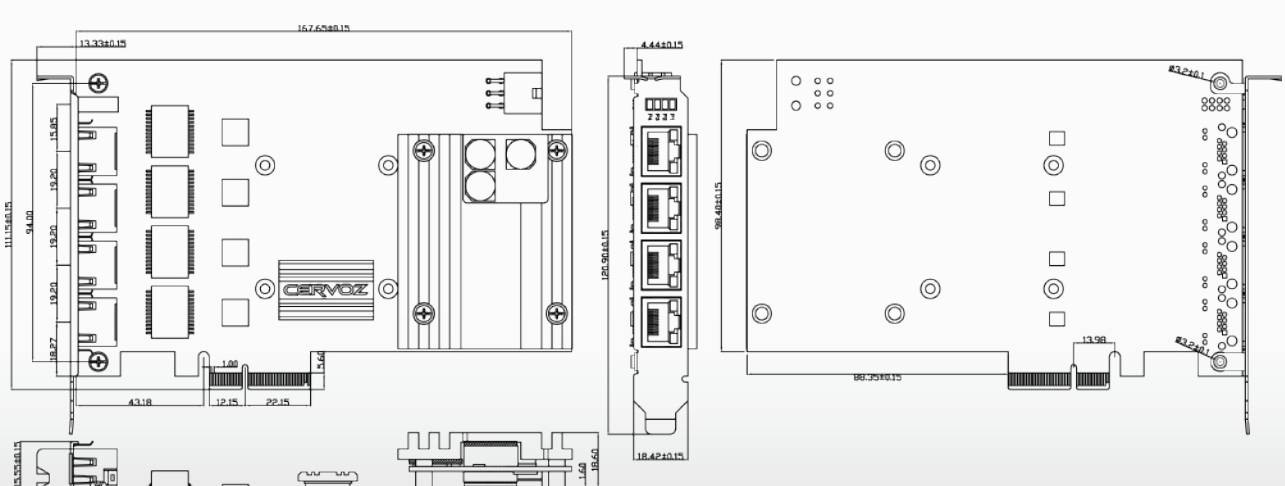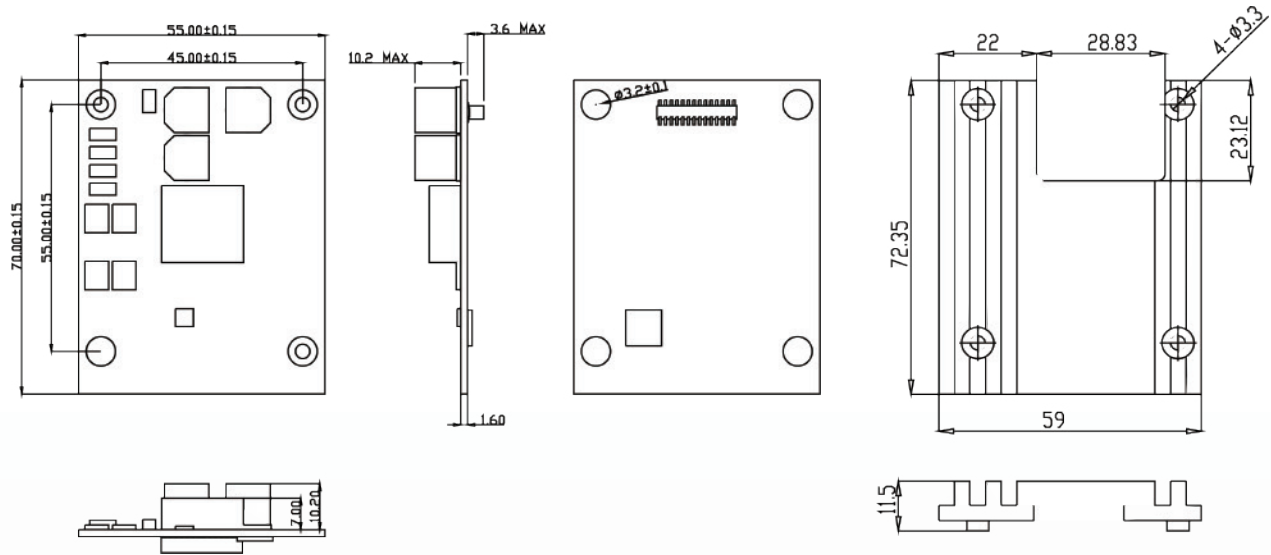
Reliability

Warranty: 3 years

Dimensions
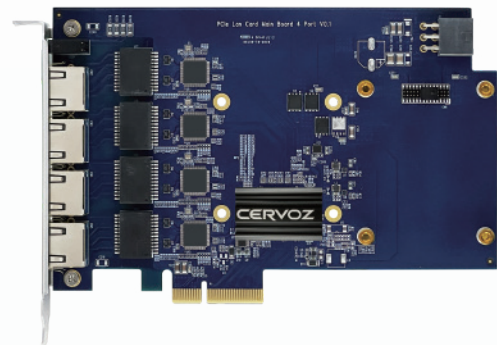
MEC-LAN-P004

MEC-LAN-P004P

PoE+ Module (with Heatsink)

Package Checklist

MEC-LAN-P004

• PCI-e LAN Card x1

• Bracket x1

• Quick Installation Guide (Printed) x1

MEC-LAN-P004P

• PCI-e LAN Card x1

• PoE+ Module (with Heatsink) x1

• Bracket x1

• Quick Installation Guide (Printed) x1

Ordering Information

Available Models

Available Models

MEC-LAN-P004   PCI-e 4 port 10/100/1000 Ethernet card

MEC-LAN-P004P   PCI-e 4 port 10/100/1000 Ethernet card with PoE+ Module