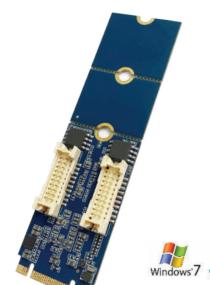
# MEC-LAN-2002i

## M.2 (B+M key) 2242/2260/2280 2-port 10/100/1000 isolated Ethernet board



- Single-Lane (x1) 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
- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, and IEEE 802.3z compliant
- IEEE 802.3x Full-Duplex flow control
- Complies with EN61000-4-2(ESD) Air-15kV, Contact-8kV
- Complies with EN61000-4-4(EFT) 2kV
- Complies with EN61000-4-5 2kV Surge protection













## Overview

MEC-LAN-2002i is a dual isolated GbE LAN module for embedded PC. The card follows the M.2 standard which is compliant with PCI Express x 1 classification and M.2 form factor. This board fits in any host computer that has M.2 slots. MEC-LAN-2002i is a highly cost-effective solution to expand Gigabit network for your computer.



## **Top Performance**

MEC-LAN-2002i has two Ethernet ports that support auto-negotiation 10/100/1000Mbps Ethernet connection with IEEE 802.3x flow control.



## **Intel Ethernet Chipset**

MEC-LAN-2002i uses high performance, efficiency, and stability Intel I210 Gigabit Ethernet Controller.



## **High Usability**

MEC-LAN-2002i is designed with flexibilities for many different application and accessories (daughter board, bracket, connection cable) are included in the standard package.



## MECFIX – Versatile Mounting

MECFIX is the unique mounting mechanism designed specially for MEC daughterboard. The feature of the mounting unit allows the following mounting options:

- 1. Standard PCI/PCIe Bracket
- 2. Low Profile PCI/PCIe Bracket
- 3. Internal Mounting inside of PC system from any position and angle.
- 4. Customizing Front/Rear Plate of PC system according to dimension of MEC daughterboard.



# **Specifications**

### General

**PCI-Express Revision:** 

PCI-Express Base Specification Rev. 2.0 PCI-Express Electromechanical Revision: PCI-Express M.2 Electromechanical Rev. 1.1

Hardware

Controllers: Intel I210 x 2

**Bus:** Single-Lane (x1) PCI-Express with throughput up to 5.0/2.5Gbps

Interface (Connector)

Ethernet 10/100/1000: 2 (RJ45)

**Technology** 

Standards: • IEEE 802.3 for 10BaseT

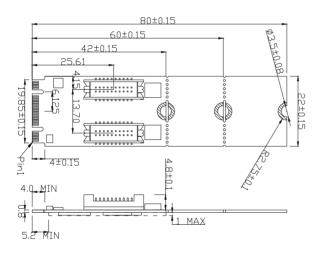
IEEE 802.3u for 100BaseT(X)
IEEE 802.3ab for 1000BaseT(X)
IEEE 802.3z for 1000BaseX

Flow Control: IEEE 802.3x flow control

**Driver Support** 

Operating Systems: Win 7, Win 8, Win 10

### **Dimensions**



## Package Checklist

- M.2 Card x 1
- Daughter Board x1
- Bracket x 1
- M2.5 Screw x 2
- 20Pin Internal Cable (30cm) x 2
- Quick Installation Guide (Printed) x 1

# **Ordering Information**



### **Available Models**

Power Requirement

Power Consumption: 625mA@3.3V

**Dimensions** 

Width x Length (mm): 22.00 x 42.00

22.00 x 60.00 22.00 x 80.00

### **Environmental Limits**

**Operating Temperature:** 

MEC-LAN-2002i :  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ MEC-LAN-2002i-S :  $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Storage Temperature :  $-40^{\circ}\text{C} \sim 95^{\circ}\text{C}$ Humidity (non-condensing):  $5\% \sim 95\%$ 

### Regulatory Approvals

EMC: CE, FCC

EMI: EN 55032, EN61000-3-2, EN61000-3-3, FCC Part 15

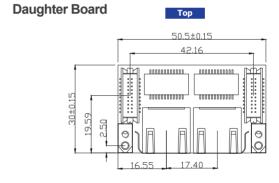
Subpart B Class B

**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,

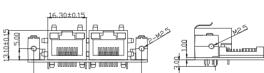
IEC 61000-4-11

### Reliability

Warranty: 3 years







Right



MEC-LAN-2002i M.2 2242/2260/2280 2-port 10/100/1000 isolated Ethernet board ( -40°C ~ 85°C) MEC-LAN-2002i-S M.2 2242/2260/2280 2-port 10/100/1000 isolated Ethernet board ( 0°C ~ 70°C)