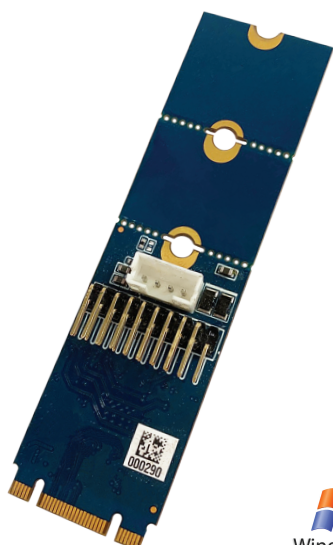


MEC-USB-2002

M.2 2242/2260/2280 2-port USB 3.0 Board



- Single-Lane (x1) PCI-Express with throughput up to 5.0/2.5Gbps
- Fully compliant with PCI-Express Base Specification Rev. 2.0
- Two USB3.0 Super-Speed ports
- Support simultaneous operation of multiple USB 1.1, USB 2.0, and USB 3.0 devices
- USB data transfer rate of 1.5/12/480/5000 Mbps
- Universal Serial Bus 3.0 specification Revision 1.0 compliant
- Support Hot-Swap function



Overview

MEC-USB-2002 is a USB 3.0 card for embedded PC. The card follows the M.2 standard which is compliant with PCI Express x1 classification and M.2 form factor. This board fits in any host computer that has M.2 slots.

Top Performance

MEC-USB-2002 provides data transfer rate of 1.5/12/480/5000 Mbps while connecting to USB 3.0 compliant peripherals. MEC-USB-2002 supports Hot-Swap and Plug-n-Play functions which allow devices to be plugged in or removed while bus is active.

High Usability

MEC-USB-2002 is designed with flexibilities for many different applications. The accessories (bracket, connection / power input cable) are included in the standard package.

Specifications

General

PCI-Express Revision:

PCI-Express Base Specification Rev 2.0

PCI-Express Electromechanical Revision:

PCI-Express M.2 Electromechanical Rev. 1.1

Power Requirement

Power Consumption: 198mA@3.3V

Dimensions

Width x Length (mm): 22.00 x 42.00
22.00 x 60.00
22.00 x 80.00

Hardware

Controllers: Renesas (NEC) μ PD720202K8-701-BAA-A

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

Interface (Connector)

USB 3.0: 2 (USB)

Performance

Data Transfer Rate:

Data Transfer rate of 1.5 / 12 / 480 / 5000 Mbps.

Low Speed (1.5Mbps), Full Speed(12Mbps),

High Speed(480Mbps), Super Speed(5Gbps)

Driver Support

Operating Systems: Win 7, Win 8, Win 10

Environmental Limits

Operating Temperature: 0°C ~ 70°C

Storage Temperature: -40°C ~ 95°C

Humidity (non-condensing): 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 55035, IEC 61000-4-2, IEC 61000-4-3,

IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6,

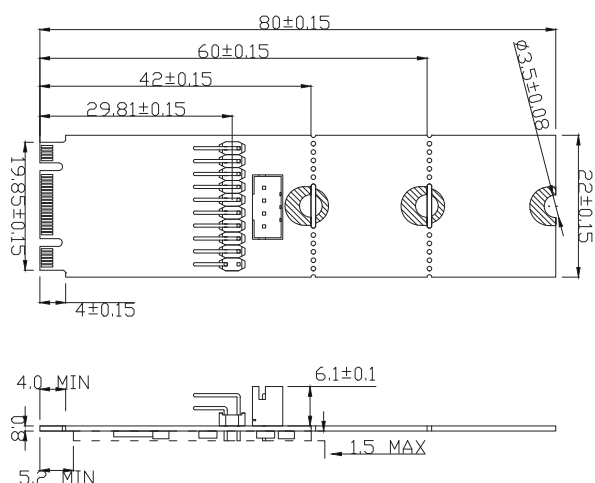
IEC 61000-4-8, IEC 61000-4-11

Reliability

Warranty: 3 years

Dimensions

Unit: mm



Package Checklist

- M.2 Card x 1
 - Bracket x 1
 - 20Pin Internal Cable (25cm) x 1
 - 4Pin Power Input Cable (30cm) x 1
- External power in *Needed when total power consumption exceed 5W*
- Quick Installation Guide (Printed) x 1



Ordering Information

Available Models

MEC-USB-2002

M.2 2242/2260/2280 2-port USB 3.0 board