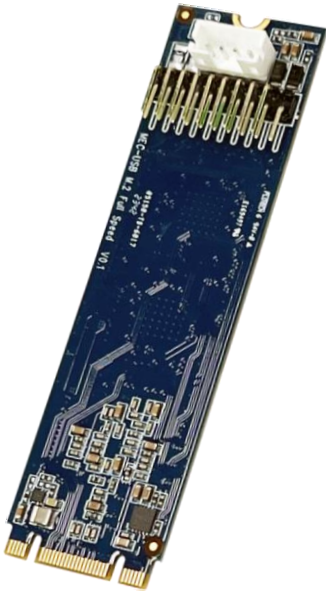


MEC-USB-2012

M.2 2280 (B+M key) 2 port USB3.2 board



- Dual-Lane (x2) PCI-Express with throughput to 5.0/2.5 GT/s
- Fully compliant with PCI-Express Base Specification Rev.2.0
- Support individual two USB devices running 5Gbps at full speed
- Support simultaneous operation of multiple USB 1.1, USB 2.0, and USB 3.2 GEN1x1 devices
- USB data transfer rate of 1.5/12/480/5000 Mbps
- Universal Serial Bus 3.2 specification Revision 1.0 compliant
- Support Hot-Swap function



Overview

MEC-USB-2012 is a USB 3.2 Gen1x1 card for embedded PC. The card follows the M.2 standard which is compliant with PCI Express x 2 classification and M.2 form factor. This board fits in any host computer that has M.2 slots.

Top Performance

MEC-USB-2012 provides data transfer rate of 1.5/12/480/5000 Mbps while connecting to USB 3.2 compliant peripherals. MEC-USB-2012 supports two USB devices run at 5Gbps at the same time. Hot-Swap and Plug-n-Play functions which allow devices to be plugged in or removed while bus as active.

High Usability

MEC-USB-2012 is designed with flexibilities for many different applications. The accessories (bracket, connection and 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: 809mA@3.3V

Dimensions

Width x Length (mm): 22.00 x 80.00

Hardware

Controllers:

Renesas (NEC) μ PD720202K8-701-BAA-A x2

Bus: Dual-Lane (x2) PCI-Express with throughput up to 5.0/2.5 GT/s

Interface (Connector)

USB 3.2: 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 (5Gpbs)

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, UKCA

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

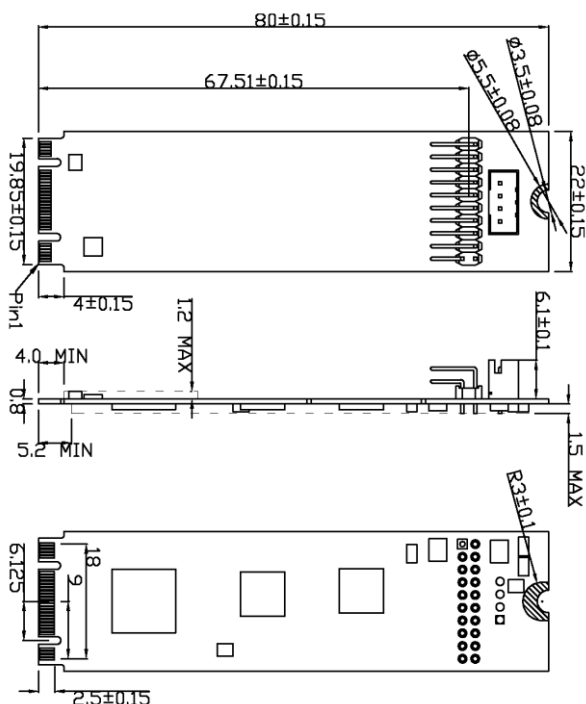
EMS: EN 55035, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Reliability

Warranty: 3 years

MTBF: >20,161,919

Dimensions



Package Checklist

- M.2 2280 Card x 1
- Bracket x 1
- 20Pin Internal Cable (25cm) x 1
- 4Pin Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1

External power in *Needed when total power consumption exceed 5W



Ordering Information

Available Models

MEC-USB-2012

M.2 2280 2 port USB 3.2 board