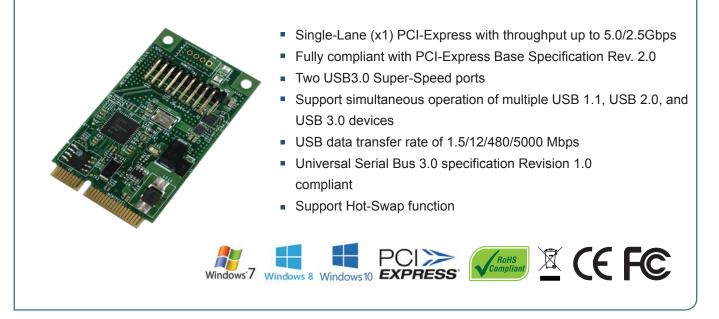
# MEC-USB-M102

#### Mini PCI-e 2-port USB 3.0 Board



## Overview

MEC-USB-M102 is a USB 3.0 card for embedded PC. The card follows the Mini PCI-e standard which is complaint with PCI Express x 1 classification and small form factor (30.00 x 50.95 mm). This board fits in any host computer that has Mini PCI-e card slots.

## **Top Performance**

MEC-USB-M102 provides data transfer rate of 1.5/12/480/5000 Mbps while connecting to USB 3.0 compliant peripherals. MEC-USB-M102 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-M102 is designed with flexibilities for many different applications. The accessories (daughter board, bracket, connection / power input 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 Mini Card Electromechanical Rev. 2.0

#### Hardware

**Controllers:** Renesas (NEC) µPD720202K8-701-BAA-A **Bus:** Single-Lane (x1) PCI-Express with throughput up to 5.0/2.5Gbps

### Interface (Connector)

**USB 3.0:** 2 (USB)

#### Performance

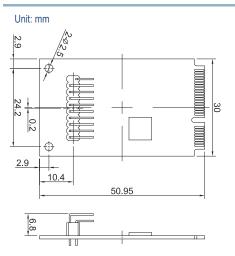
#### Data Transfer Rate:

Data Transfer rate of 1.5 / 12 / 480 / 5000 Mbps. Low Speed (1.5Mbps), Full Speed(12Mbps), High Speed(480Mbps), Super Speed(5Gpbs)

#### **Driver Support**

Operating Systems: Win 7, Win 8, Win 10

### Dimensions



Package Checklist

- Mini PCI-e Card x 1
- Daughter Board x 1
- Bracket x 1
- M2.5 Screw x 2
- 20Pin Internal Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1
- Driver CD x 1

## **Ordering Information**

## Available Models

MEC-USB-M102

Mini PCI-e 2-port USB 3.0 board

Power Requirement Power Consumption: 215mA@3.3V

Dimensions Width x Length (mm): 30.00 x 50.95

#### Environmental Limits

Operating Temperature:  $0^{\circ}C \sim 70^{\circ}C$ Storage Temperature:  $-40^{\circ}C \sim 95^{\circ}C$ Humidity (non-condensing):  $5\% \sim 95\%$ 

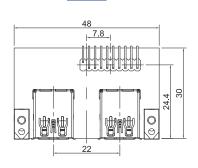
#### **Regulatory Approvals**

EMC: CE, FCC EMI: EN 55032, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B Class B EMS: En 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

**Daughter Board** 

Warranty: 3 years



Тор

