

# MEC-FIR-M003

## Mini PCI-e 1-port IEEE 1394A and 2-port 1394B board



- Single-Lane (x1) PCI-Express with throughput up to 2.5Gbps
- Fully compliant with PCI-Express Base Specification Rev. 1.1
- Transfer rate up to 400Mbps for IEEE1394A FireWire and up to 800Mbps for IEEE1394B FireWire
- IEEE P1394b and backwards supports 1394a-2000 as well as 1394-1995 standards compliant
- Support Hot-Swap function



## Overview

MEC-FIR-M003 is a FireWire card for embedded PC. The card follows the Mini PCI-e standard which is compliant 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-FIR-M003 has 1 port of 1394A that provides transfer rate of 400 Mbps, 2 ports of 1394B that provide transfer rate of 800 Mbps. It supports the Hot-Swap function which allows devices to be plugged in or removed while bus is active.

### Compatibility with Various Types of Devices

MEC-FIR-M003 is compatible with a wide range of FireWire devices which includes DV camcorder, hard disk drive, removable drive, scanner, digital camera, and other 1394 audio/video devices.

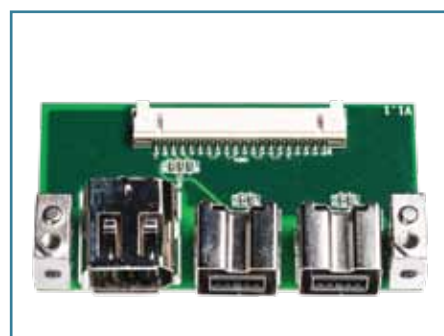
### High Usability

MEC-FIR-M003 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 1.1

### PCI-Express Electromechanical Revision:

PCI-Express Mini Card Electromechanical Rev. 1.1

## Hardware

**Controllers:** LSI FW643

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

## Interface (Connector)

**IEEE 1394A:** 1 (1394A)

**IEEE 1394B:** 2 (1394B)

## Performance

**Data Transfer Rate:** 100, 200, 400, 800Mbit/s transfer Rate

## Driver Support

**Operating Systems:** Win 2003, Win XP, Win Vista, Win 7, Win 8

## Power Requirement

**Power Consumption:** 245mA@3.3V

## Dimensions

**Width x Length (mm):** 30.00 x 50.95

## Environmental Limits

**Operating Temperature:** 0 to 60°C

**Storage Temperature:** -20°C ~ 85°C

**Humidity:** 5% ~ 95%

## Regulatory Approvals

**EMC:** CE, FCC

**EMI:** EN 55022, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B Class B

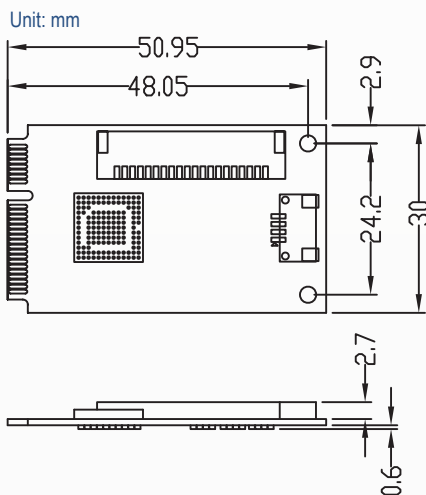
**EMS:** En 55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

## Reliability

**MTBF:** 1,726,787 hr

**Warranty:** 3 years

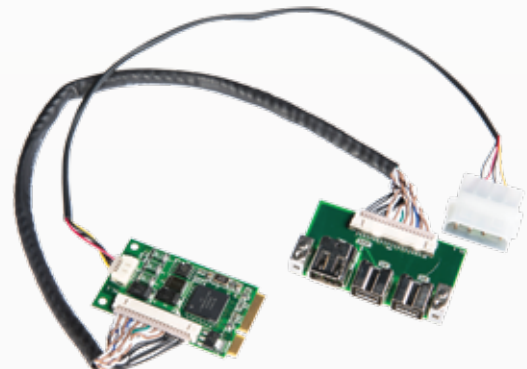
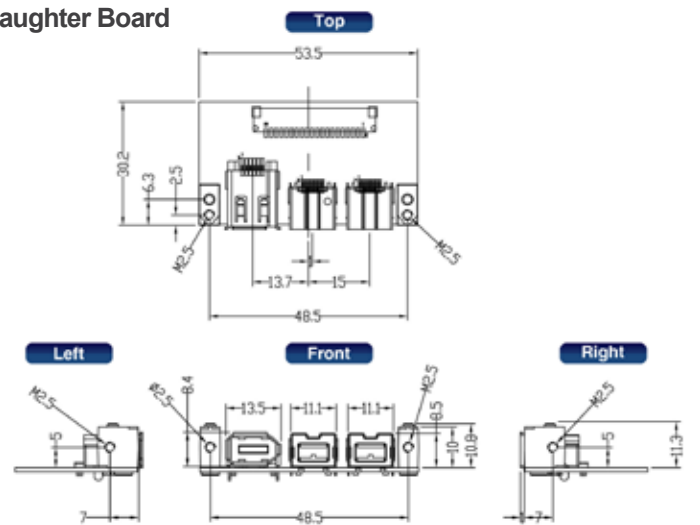
## Dimensions



## 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
- 4Pin Power Input Cable (30cm)
- Quick Installation Guide (Printed) x 1
- Driver CD x 1

## Daughter Board



# Ordering Information

## Available Models

MEC-FIR-M003

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