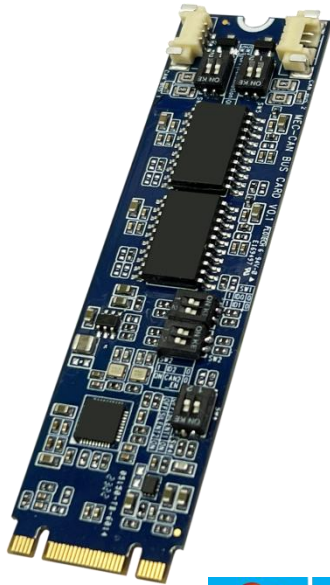


# MEC-CAN-2802i

*M.2 2280 dual isolated CAN bus 2.0B board (-40°C ~+85°C)*



- Single-Lane (x1) PCI-Express with throughput to 5.0/2.5 GT/s
- Fully compliant with PCI-Express Base Specification Rev.2.0
- Meet the Requirements of the ISO 11898 high speed standard
- CAN bus 2.0B EFF backward compatible with 2.0A SFF
- Support baud rate 10/20/50/100/125/250/500/800/1000K
- Support CAN message acceptance filter
- Compliant with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- Split Termination resistor enabled/disabled by switch
- Support Card ID and Silent mode setting by switch
- Provide software SDK for Application layer develop
- Support port to computer isolation 2.5kV



Linux



PCI EXPRESS



## Overview

MEC-CAN-2802i is a dual CAN bus 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.

### Top Performance

MEC-CAN-2802i provides two DB9 connectors that come with 11898-1 and 11898-2 layer protocol support of CAN bus 2.0A/B. The wide operating temperature and 2.5 kV isolation make MEC-CAN-2802i suitable for use on harsh industrial environments.

### High Usability

MEC-CAN-2802i is designed with flexibilities for many different application and accessories (bracket and DB9 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:** 400mA@3.3V

### Dimensions

**Width x Length (mm):** 22.00 x 80.00

## Hardware

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

**Output I/F:** CAN bus 2.0B

## Interface (Connector)

**CAN bus:** 2 (DB9 male)

## Communications

**CAN Controllers:** F81601

**CAN Transceiver:** ADM3057E

**Protocol:** CAN bus 2.0 A/B

**Signal Support:** CAN-H、CAN-L

**Speed:** 10/20/50/100/125/250/500/800/1000K

**CAN Frequency:** 24MHz

**Termination Resistor:** 120 OHM

(split termination mode)

## Serial Line Protection

**ESD Protection:** 15kV on board

## Galvanic Isolation

**Voltage:** 2.5kV

## Performance

**Baud Rate:** up to 1Mbps

## Driver Support

Download driver and Software Development Kit (SDK)

## Operating Systems:

Windows 11

Windows 10 32-Bit and 64-Bit

Windows 8.1 32-Bit and 64-Bit

Windows 8 32-Bit and 64-Bit

Windows 7 32-Bit and 64-Bit

Linux Kernel 3.4 and above

## Environmental Limits

**Operating Temperature:** -40°C ~ 85°C

**Storage Temperature:** -40°C ~ 95°C

**Humidity (non-condensing):** 5% ~ 95%

## Regulatory Approvals

**EMC:** CE, FCC, UKCA

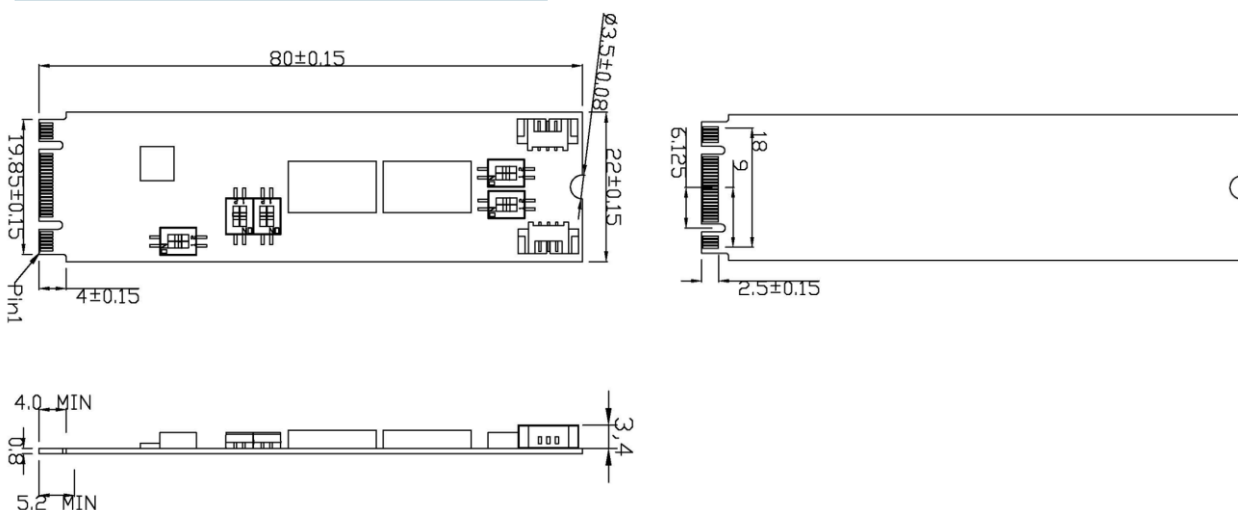
**EMI:** EN 55022, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B, Class B

**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, IEC 62368-1

## Reliability

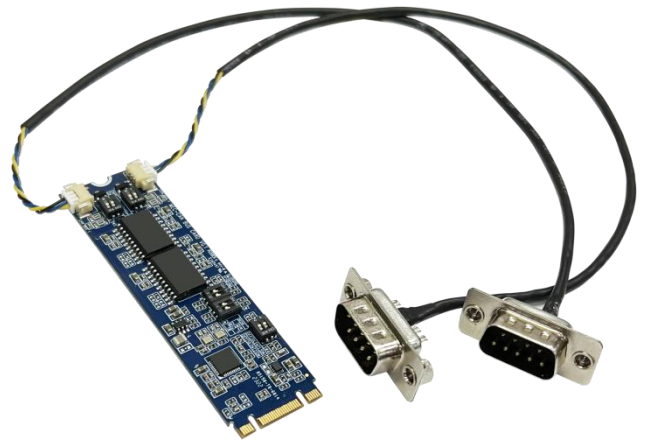
**Warranty:** 3 year

## Dimensions



## Package Checklist

- M.2 2280 Card x 1
- Bracket x 1
- DB9 Male Cable (30cm) x 2
- Quick Installation Guide (Printed) x 1



## Ordering Information

### Package Checklist

MEC-CAN-2802i

M.2 2280 dual isolated CAN bus 2.0B Board (-40°C ~+85°C)