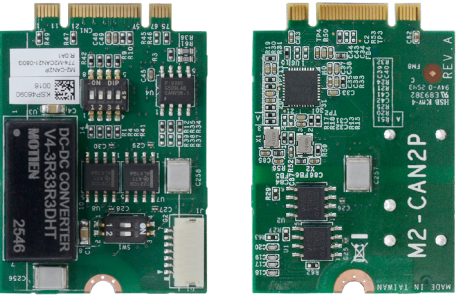


# M2-CAN2

Module board  
Peripheral

A hardware module that provides secure CAN2 device monitoring and management functions over the connected edge system.

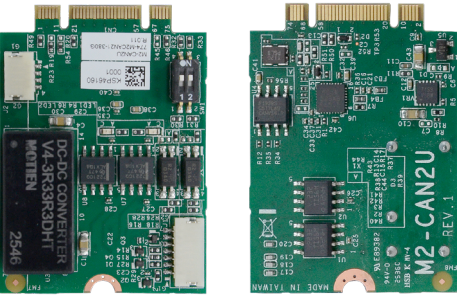
### M2-CAN2P



Top View

Bottom View

### M2-CAN2U



Top View

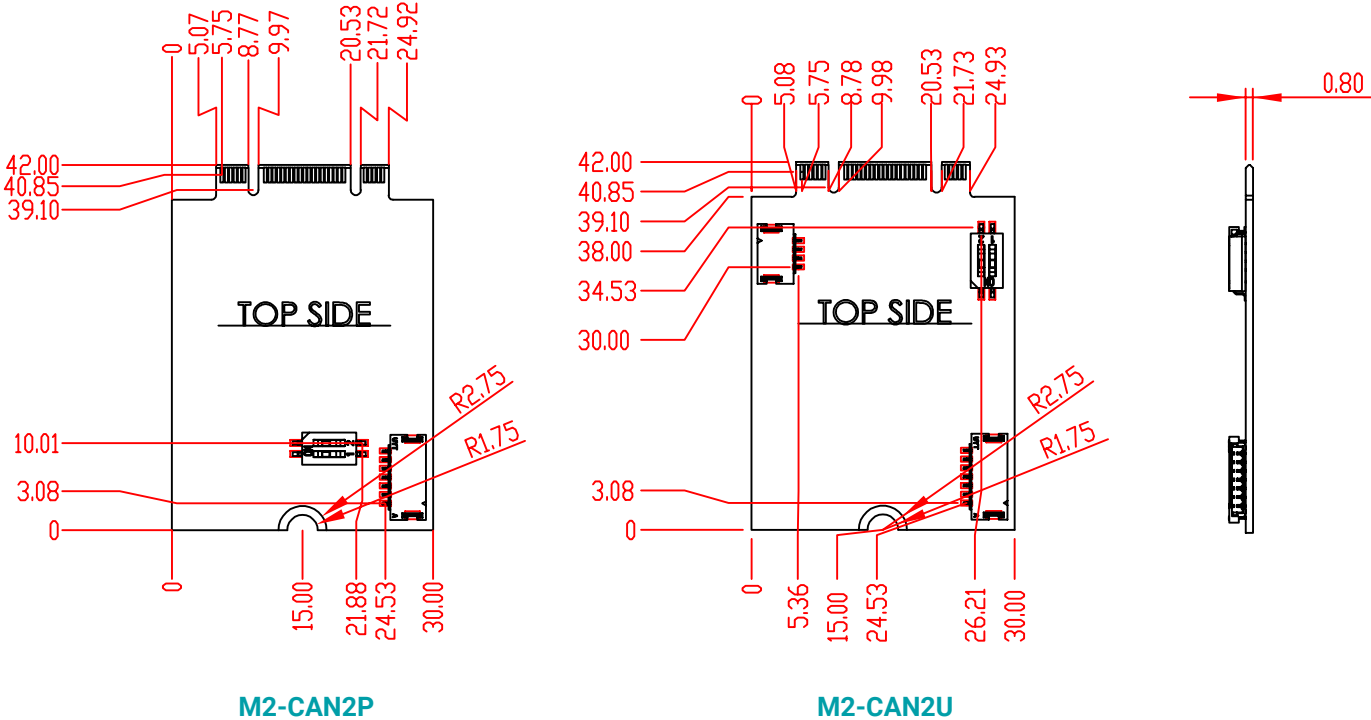
Bottom View

### KEY FEATURES

- Dual Isolated CAN FD Module
- Supports CAN Bus 2.0A/2.0B/FD (Arbitration bit rate up to 1Mbit/s, Data bit rate up to 5Mbit/s)
- Form Factor: M.2 B+M Key 30mm x 42mm
- Input Interface: PCIe or USB 2.0 (by different sku)
- Termination resistor enabled/disabled by switch
- Compliant with ISO 11898-1:2015 (CAN FD)
- Complies with IEC 62368-1:2020/A11:2020 1KV HiPOT protection
- Complies with EN61000-4-2 (ESD) Air-15KV, Contact-8KV
- Support 1KV isolation of each channel
- Operation Temperature -40°C to 85°C



### MECHANICAL DRAWING



## SPECIFICATION

<b>Model name</b>	M2-CAN2
<b>Board Form Factor</b>	M.2 3042 B+M Key
<b>Input</b>	PCIe or USB 2.0 (by different sku)
<b>Output</b>	Dual port by DB9
<b>Physical</b>	CAN 2.0A/2.0B/FD Arbitration bit rate up to 1Mbit/s Data bit rate up to 5Mbit/s
<b>Protocol</b>	Provide J1939 SDK for Windows and Linux (User guide, demo application, API) Provide CANopen SDK for Windows and Linux (User guide, demo application, API)
<b>Dimension</b>	30 x 42mm
<b>Temperature</b>	Op. temp: -40 to 85°C Storage temp.: -40 to 85°C

### M2-CAN2P/M2-CAN2U J1 Connector

Pin Define	Signal
1	CAN1-L
2	CAN1-H
3	CAN2-L
4	CAN2-H
5	NC
6	NC
7	NC

### M2-CAN2U J2 Connector

Pin Define	Signal
1	VBUS
2	D-
3	D+
4	GND

### CAN DB9 Connector

Pin Define	Signal
1	CAN1-L
2	CAN1-H
3	CAN2-L
4	CAN2-H
5	GND
6	NC
7	NC
8	NC
9	NC

### M2-CAN2P/M2-CAN2U DIP Switch (SW1)

4_ON(default)	Enable CAN1 termination resistor(120 ohm)
1_OFF	Disable CAN1 termination resistor(120 ohm)
3_ON(default)	Enable CAN2 termination resistor(120 ohm)
2_OFF	Disable CAN2 termination resistor(120 ohm)

## ORDERING INFORMATION

Model Name	Part Number	Description
M2-CAN2P	770-M2CAN21-080G	M.2 B-M Key 3042 Dual CAN FD module , PCIe 1.1, Protocol J1939
M2-CAN2U	770-M2CAN21-180G	M.2 B-M Key 3042 Dual CAN FD module , USB 2.0, Protocol J1939
M2-CAN2P	770-M2CAN21-280G	M.2 B-M Key 3042 Dual CAN FD module , PCIe 1.1, Protocol CANopen
M2-CAN2U	770-M2CAN21-380G	M.2 B-M Key 3042 Dual CAN FD module , USB 2.0, Protocol CANopen

## PACKING LIST

• 1 M2-CAN2 module
• 1 CAN cable (Length: 210mm) A81-009281-018G