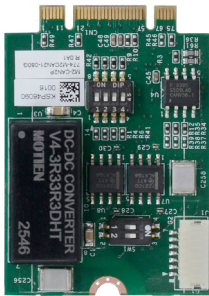


M2-CAN2

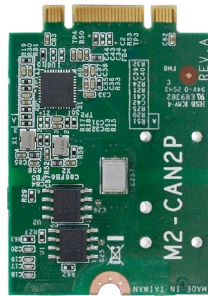
Module board
Peripheral

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

M2-CAN2P



Top View

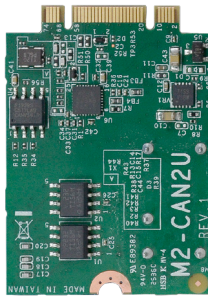


Bottom View

M2-CAN2U



Top View



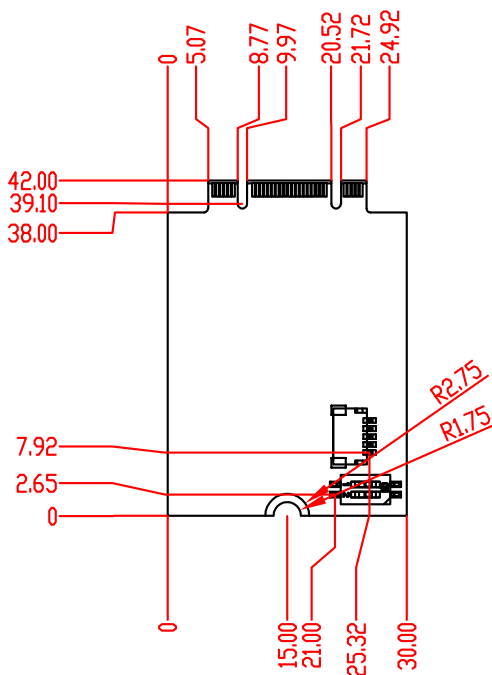
Bottom View

KEY FEATURES

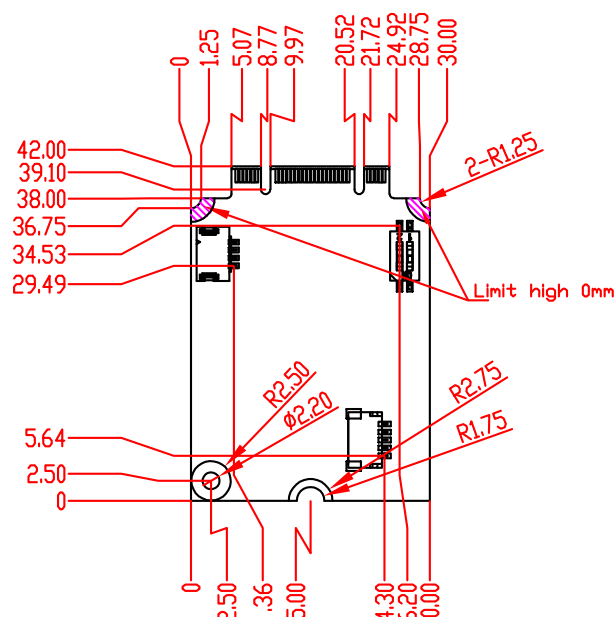
- Dual Isolated CAN FD Module
- Supports CAN Bus 2.0A/2.0B/FD (Arbitration bit rate up to 1Mbit/s, Data bit rate up to 5Mbit/s)
- Form Factor: M.2 B+M Key 30mm x 42mm
- Input Interface: PCIe or USB 2.0 (by different sku)
- Termination resistor enabled/disabled by switch
- Compliant with ISO 11898-1:2015 (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



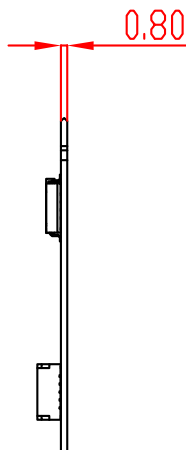
MECHANICAL DRAWING



M2-CAN2P



M2-CAN2U



SPECIFICATION

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

M2-CAN2P/M2-CAN2U
J1 Connector

Pin Define	Signal
1	GND
2	CAN1-L
3	CAN1-H
4	CAN2-L
5	CAN2-H

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-M2CAN21-000G	M.2 B-M Key 3042 Dual CAN FD module , PCIe 1.1, Protocol J1939
M2-CAN2U	770-M2CAN21-100G	M.2 B-M Key 3042 Dual CAN FD module , USB 2.0, Protocol J1939
M2-CAN2P	770-M2CAN21-200G	M.2 B-M Key 3042 Dual CAN FD module , PCIe 1.1, Protocol CANopen
M2-CAN2U	770-M2CAN21-300G	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