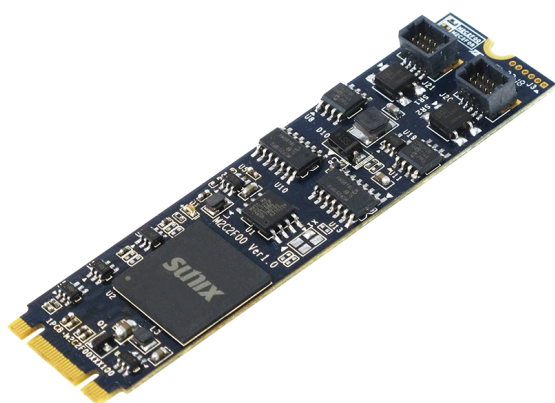




M2C2F00

M.2 to 2-port CAN FD Communication Card



Introduction

SUNIX M2C2F00, industrial M.2 to 2-port high speed CAN FD communication card, is designed for Edge Computer that enables CAN FD and CAN bus data communication capability for electric vehicle industry application. This board not only built-in SUNIX Digital-I/O controller, **QiuNiu**, but also built with many of SUNIX advanced features and technologies. In addition, SUNIX provides Windows and SocketCAN drivers, allowing users to use this card on Windows and Linux operating systems. SUNIX M2C2F00 card enriches CAN 2.0/ CAN FD interface expandable capacity; it is the best CAN bus communication solution for electric vehicle and AVG/AMR, IVI (In-Vehicle Infotainment) applications.

Features

- Suitable for M.2 slot with Key-M or Key-B based on PCI Express communication
- Equipped with high reliable SUNIX **QiuNiu** controller
- Complies with CAN specifications 2.0 and FD
- CAN FD bit rates for the data field up to 8 Mbit/s
- Plug-n-Play, I/O address and IRQ assigned by system
- Support Windows and Linux SocketCAN drivers

Specifications

Board Level

Interface	M.2 PCIe
Controller	SUNIX QiuNiu controller
BUS	PCI Express 2.0 x 1(single lane) M.2 2280 Type, 59-pin Key B+M Male
IRQ & IO	Assigned by System
ESD Protection	±15KV IEC61000-4-2 Air Gap Discharge ±8KV IEC61000-4-2 Contact Discharge

CAN Communication

Type	CAN 2.0 / CAN FD	Channel	2-channel
Arbitration bit rate	1 Mbit/s	Data bitrate	8 Mbit/s
PCB Connector	2 pcs x WAFER 2x5P pitch 1.0mm (180°)		

Software Support

Microsoft	Windows 10 (32/64bit) / 11 (64bit)
Linux SocketCAN	Linux Kernel 5.x / 6.x

Declaration

Green Product	RoHS, WEEE
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Regulatory Approvals

Hardware	CE / FCC / VCCI / BSMI
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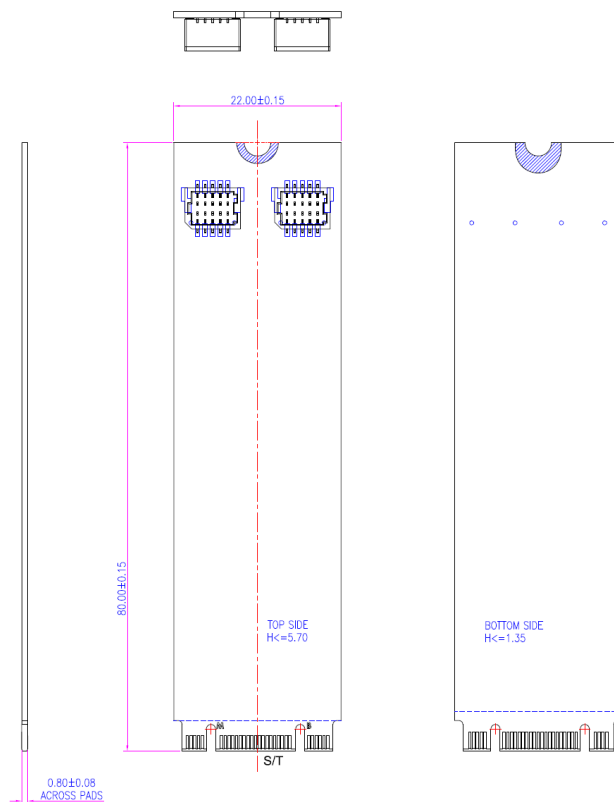
Environment

Operation Temperature	-20 to 70°C (-4 to 158°F)
Operation Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

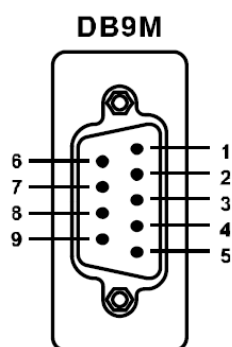
PCB Dimension	22 x 80 mm
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Unit : mm



Pin Assignment

■ CAN interface



PIN	Signal
1	-
2	CAN L
3	GND
4	-
5	-
6	GND
7	CAN H
8	-
9	-

Package

- M2C2F00 M.2 to 2-port CAN FD communication Card
- D-Sub 9-pin male with nuts on cable, 30 cm x 2pcs



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