

ESPC-F2S3

PCIe to Dual Isolated CAN FD Module

HIGHLIGHT FEATURES

- Baud rate up to 5 / 10 / 20 / 50 / 100 / 125 / 250 / 500 (Default) / 800 / 1000K
- Data rate up to 2 / 4 / 5Mbps (*Notes)
- CAN2.0 up to 7,800 frame/s (RX baud rate 1M, EID, 8byte data)
- CANFD up to 6,000 frame/s (RX baud rate 1M, data rate 5M, EID, 64byte data)
- Supports CAN message acceptance filter, listen-only mode
- Keeps configuration after hardware reboot
- Additional driver to support Linux SocketCAN
- Termination resistor enabled/disabled by jumper
- Optional M.2 slot to expand 2-4 more CAN ports by installing EGUC series
- Compliant with ISO 11898-2:2016 (CAN FD)
- Compliant with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- Complies with IEC 60950-1 : 2005 + A1 : 2009 + A2 : 2013 2.5kV HiPOT protection
- Industrial temperature (-40°C to 85°C) support

SPECIFICATIONS

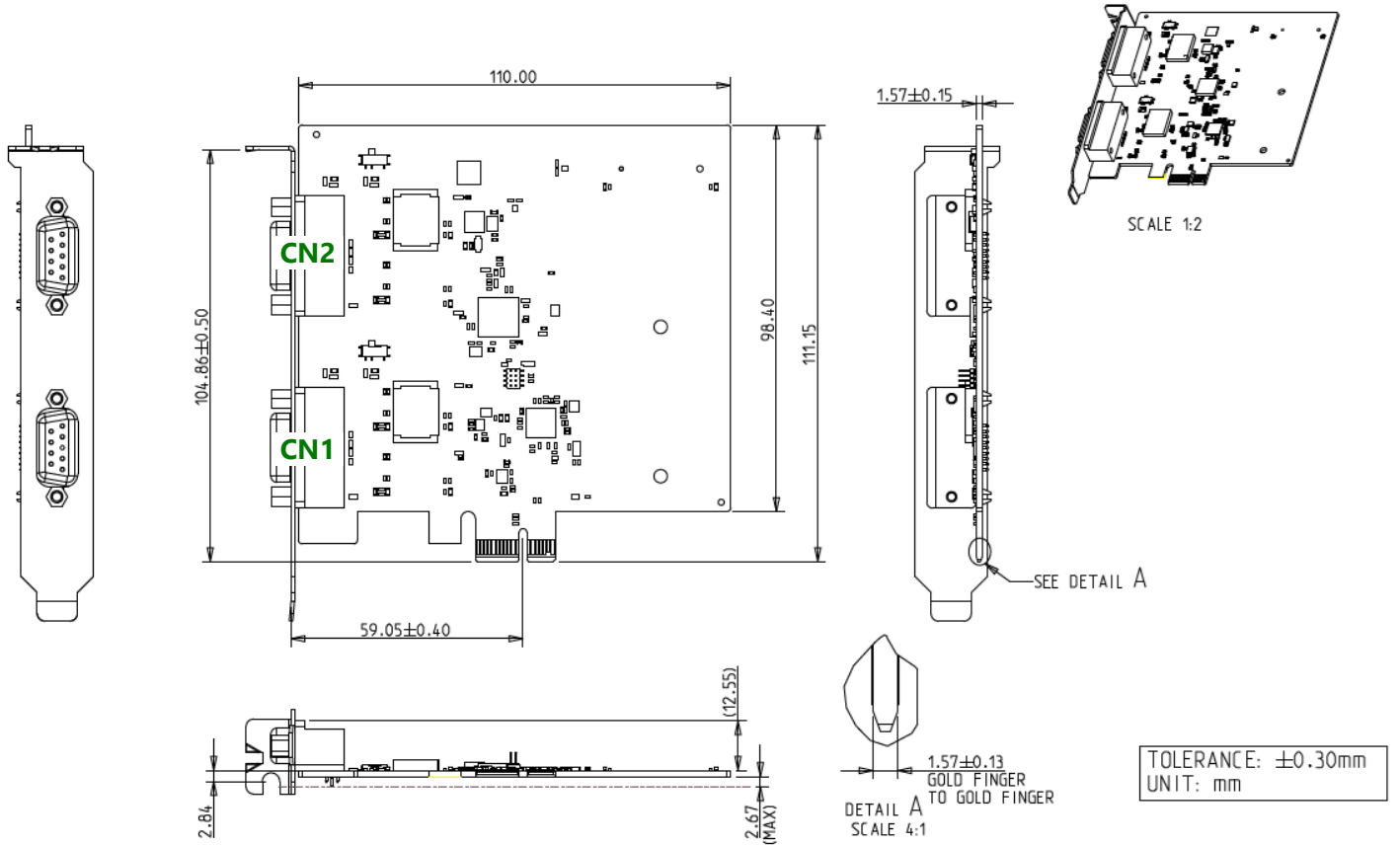
Model Name	ESPC-F2S3
Module Type	PCIe to Dual Isolated CAN FD
Form Factor	Standard PCIe
Function	CAN FD
Input I/F	PCI Express 2.0 x1
Output I/F	CAN FD
Output Port	2
Output Connector	DB-9
Max. Power Consumption	3.3 W (3.3V, 1000mA)
Dimension (W x L x H/mm)	111.15 x 110 x 16.79
Temperature	Operation : W/T -40°C ~ 85°C (Ta) Storage : -55°C ~ 95°C (Ta)
Vibration	5G@[7~2000Hz]
Shock	50G@0.5ms
OS Support	Windows : 10 (32 / 64bit), and above version Linux : Kernel 2.6 and above (Native CDC-ACM driver), Kernel 2.6.38 and above (SocketCAN Driver), 32 / 64bit
Warranty	3 Years
Notes	*Data rate limitation: • 2M supports normal rate 100k and above. • 4M / 5M supports normal rate 250K and above.

ORDER INFO.

P/N	Description
ESPC-F2S3-W1	PCIe to Dual Isolated CAN FD
ESPC-F2S3-W2	PCIe to Dual Isolated CAN FD, with M.2 Slot

MECHANICAL DRAWING

ESPC-F2S3-W1



PIN DEFINE

CAN DB9 Connector Pin Define (CN1)

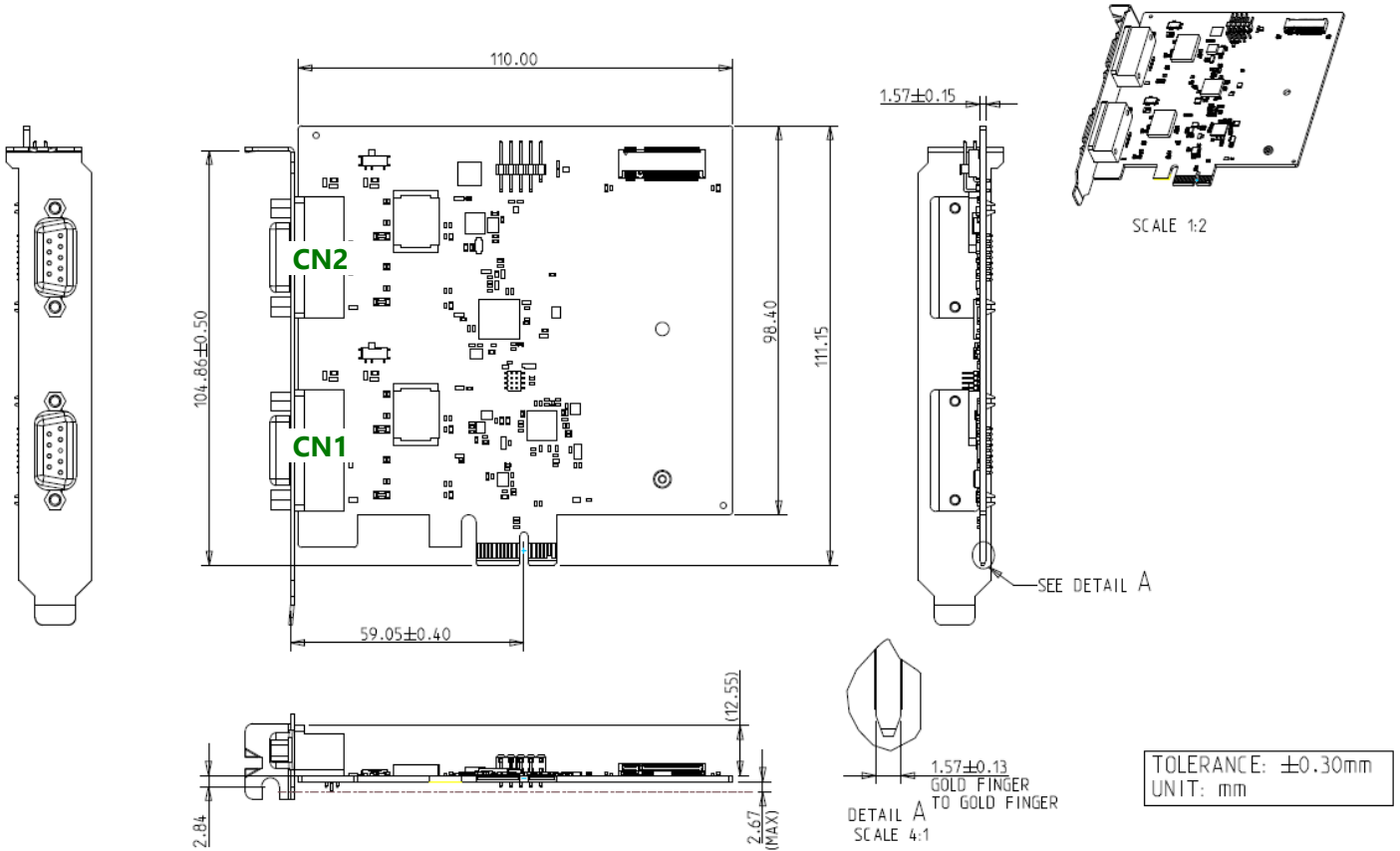
1	NC
2	CAN0-L
3	GND
4	NC
5	Shielding GND
6	GND
7	CAN0-H
8	NC
9	NC

CAN DB9 Connector Pin Define (CN2)

1	NC
2	CAN1L
3	GND
4	NC
5	Shielding GND
6	GND
7	CAN1-H
8	NC
9	NC

MECHANICAL DRAWING

ESPC-F2S3-W2



PIN DEFINE

CAN DB9 Connector Pin Define (CN1)

1	NC
2	CAN0-L
3	GND
4	NC
5	Shielding GND
6	GND
7	CAN0-H
8	NC
9	NC

CAN DB9 Connector Pin Define (CN2)

1	NC
2	CAN1L
3	GND
4	NC
5	Shielding GND
6	GND
7	CAN1-H
8	NC
9	NC

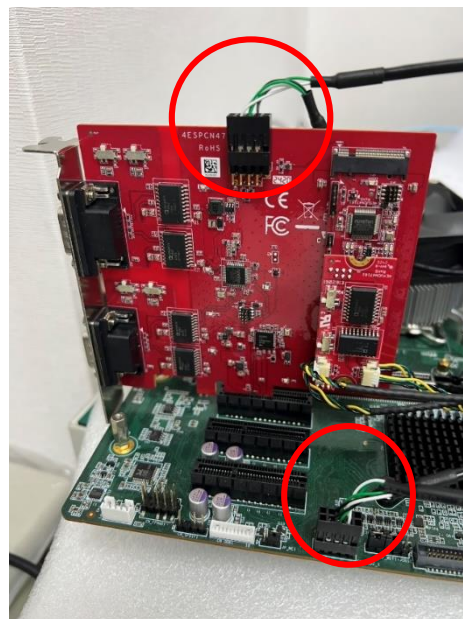
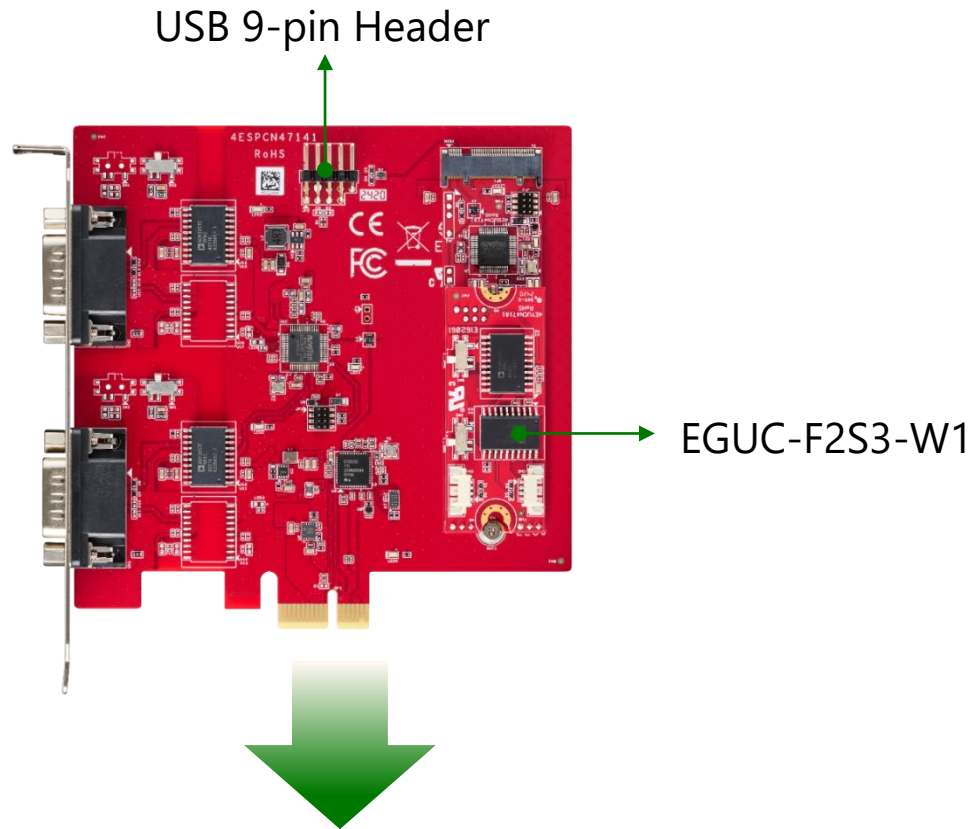
External USB Pin Define (For M.2 Slot)

1	NC
2	NC
3	D1-
4	D2-
5	D1+
6	D2+
7	GND
8	GND
10	NC

COMBINATION WITH EGUC-F2S3 / F4S3

Install EGUC-F2S3 / F4S3 on M.2 slot (USB interface) can expand 2-4 more CAN ports.

Must connect a USB cable (not included) into the 9-pin USB header to provide USB 2.0 signal for the M.2 slot.



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