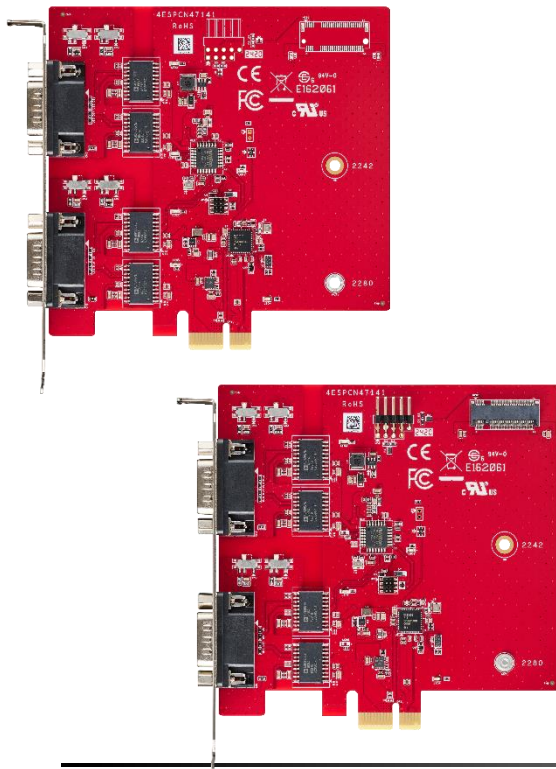




## ESPC-F4S3

PCIe to four isolated CAN FD

### HIGHLIGHT FEATURES

- ISO 11898-2:2016 compliant (CAN FD)
- Baud rate support 5/10/20/50/100/125/250/500(default)/800/1000K
- Data rate support 2/4/5Mbps(\*note)
- Support CAN message acceptance filter, listen-only mode
- Keep configuration after hardware reboot
- 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)
- 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
- Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HiPOT protection
- Complaint with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- 30μ" golden finger, 3-year warranty
- Industrial Temperature (-40°C to +85°C) support
- Industrial design, manufactured in Innodisk Taiwan

### SPECIFICATIONS

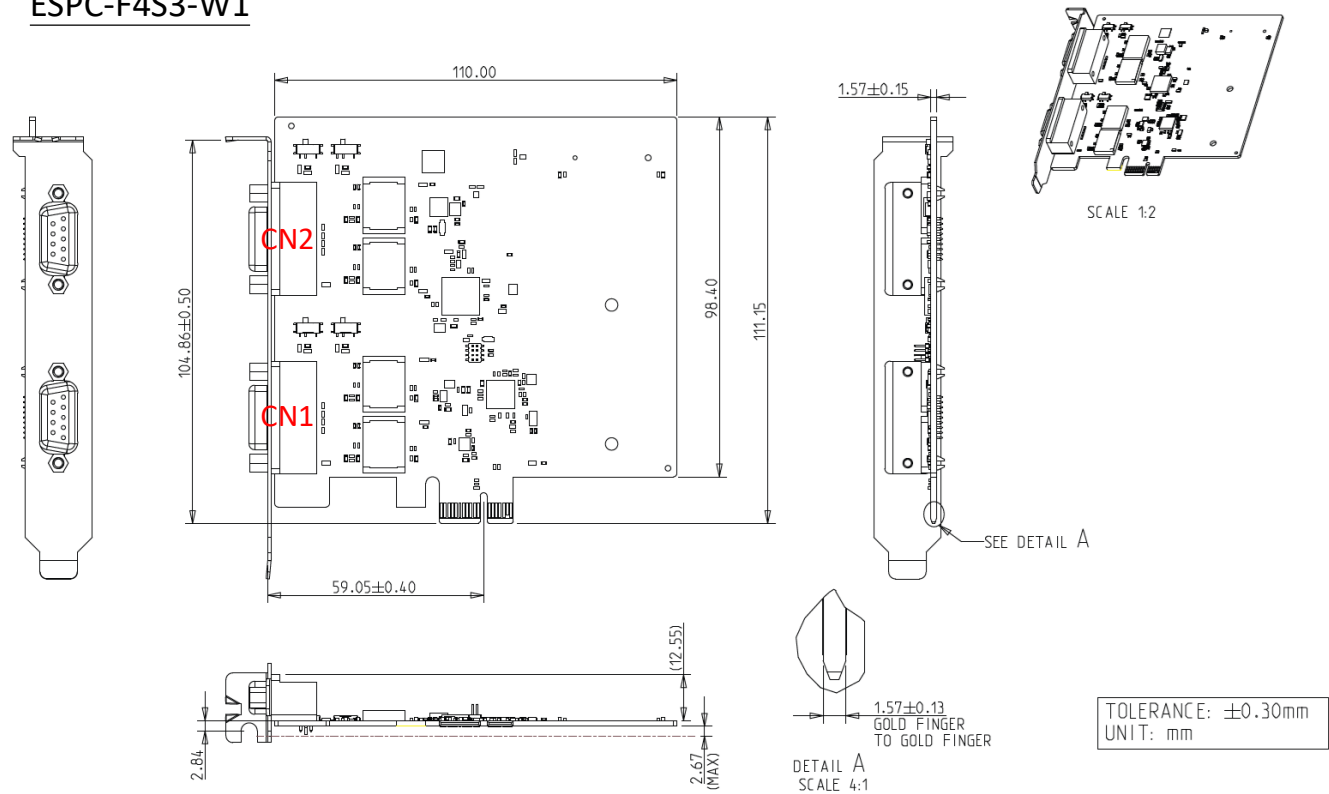
|                          |                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module Name              | ESPC-F4S3                                                                                                                                                         |
| Module Type              | PCIe to four isolated CAN FD                                                                                                                                      |
| Form Factor              | PCIe x4                                                                                                                                                           |
| Function                 | CAN Bus                                                                                                                                                           |
| Input I/F                | PCI Express 2.0 x1                                                                                                                                                |
| Output I/F               | CAN FD                                                                                                                                                            |
| Output Port              | 4                                                                                                                                                                 |
| 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)<br>Storage : -55°C ~ 95°C (Ta)                                                                                                  |
| Vibration                | 5G@[7~2000Hz]                                                                                                                                                     |
| Shock                    | 50G@0.5ms                                                                                                                                                         |
| OS Support               | Windows: 10(32/64bit), 11<br>Linux: Kernel 2.6 and above (Native CDC-ACM driver), Kernel 2.6.38 and above (SocketCANDriver), 32/64bit                             |
| Warranty                 | 3 Years                                                                                                                                                           |
| Notes                    | *Data rate limitation: <ul style="list-style-type: none"><li>• 2M support normal rate 100k and above</li><li>• 4M/5M support normal rate 250K and above</li></ul> |

ORDER INFO.

| P/N          | Description                                |
|--------------|--------------------------------------------|
| ESPC-F4S3-W1 | PCIe to four isolated CAN FD               |
| ESPC-F4S3-W2 | PCIe to four isolated CAN FD with M.2 slot |

MECHANICAL DRAWING

ESPC-F4S3-W1

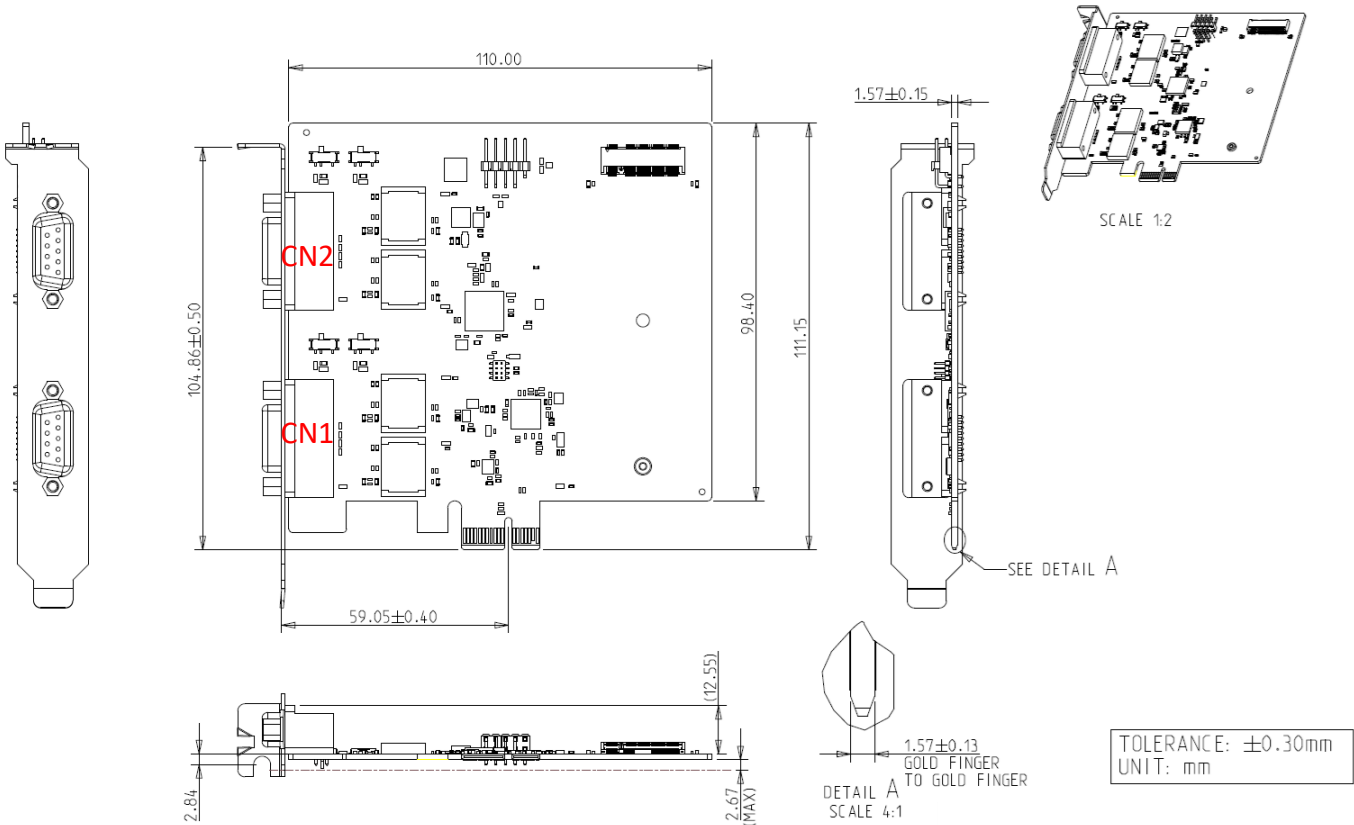


| CAN DB9 Connector<br>Pin Define (CN1) |               |
|---------------------------------------|---------------|
| 1                                     | NC            |
| 2                                     | CAN0-L        |
| 3                                     | GND           |
| 4                                     | CAN2-H        |
| 5                                     | Shielding GND |
| 6                                     | GND           |
| 7                                     | CAN0-H        |
| 8                                     | CAN2-L        |
| 9                                     | NC            |

| CAN DB9 Connector<br>Pin Define (CN2) |               |
|---------------------------------------|---------------|
| 1                                     | NC            |
| 2                                     | CAN1L         |
| 3                                     | GND           |
| 4                                     | CAN3-H        |
| 5                                     | Shielding GND |
| 6                                     | GND           |
| 7                                     | CAN1-H        |
| 8                                     | CAN3-L        |
| 9                                     | NC            |

MECHANICAL DRAWING

ESPC-F4S3-W2



| CAN DB9 Connector<br>Pin Define (CN1) |               |
|---------------------------------------|---------------|
| 1                                     | NC            |
| 2                                     | CAN0-L        |
| 3                                     | GND           |
| 4                                     | CAN2-H        |
| 5                                     | Shielding GND |
| 6                                     | GND           |
| 7                                     | CAN0-H        |
| 8                                     | CAN2-L        |
| 9                                     | NC            |

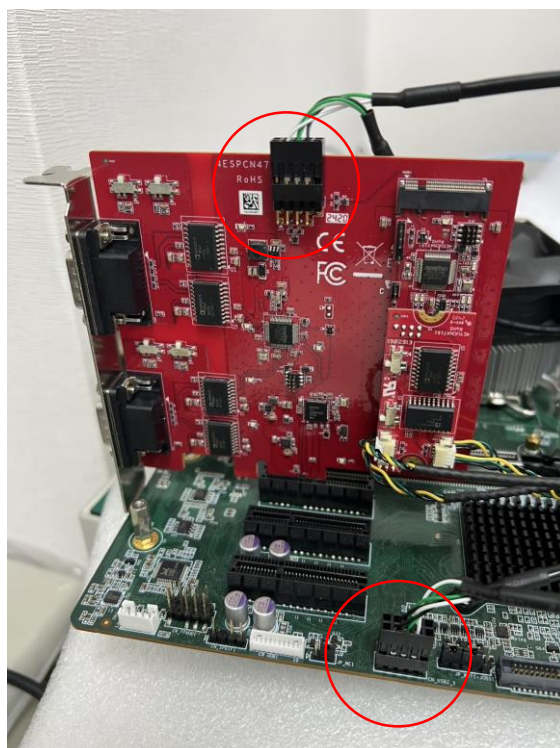
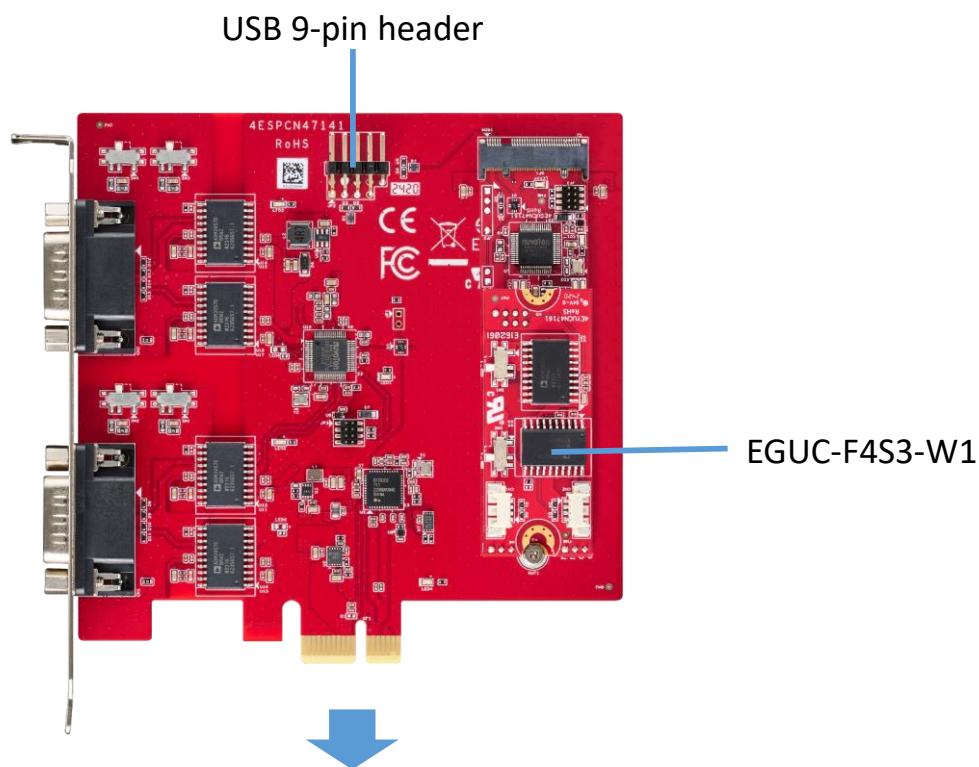
| CAN DB9 Connector<br>Pin Define (CN2) |               |
|---------------------------------------|---------------|
| 1                                     | NC            |
| 2                                     | CAN1L         |
| 3                                     | GND           |
| 4                                     | CAN3-H        |
| 5                                     | Shielding GND |
| 6                                     | GND           |
| 7                                     | CAN1-H        |
| 8                                     | CAN3-L        |
| 9                                     | NC            |

| External USB Pin Define<br>(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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