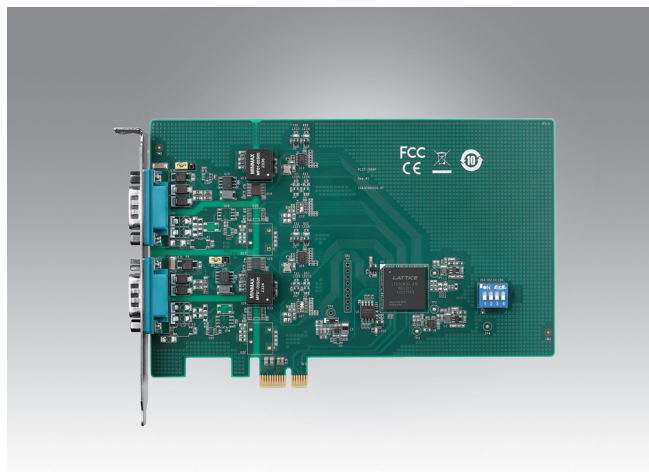


# PCIE-1682F

## 2-Port CAN FD Bus PCIE Card with Isolation Protection



FCC CE

### Features

- PCIe bus specification 1.2 compliant
- 2 x Independent CAN ports
- Up to 8 Mbps transmission speeds
- 40 MHz CAN FD controller frequency
- Optical isolation protection of 2,500 V<sub>DC</sub>
- Transmit/Receive status LED indicators

### Introduction

The PCIE-1682F is a purpose-built communication card that ensures CAN FD connectivity. With 2 independent CAN FD controllers built in, the PCIE-1682F enables bus arbitration and error detection with automatic transmission repetition, drastically reducing data loss and ensuring system reliability. Additionally, the PCIE-1682F operates at baud rates of up to 8 Mbps.

### Specifications

#### General

- **Bus Type** PCI Express V1.2
- **Certification** CE, FCC
- **Connectors** 2 x DB9, male
- **Ports** 2
- **Power Consumption** 3.3 V @ 630 mA (typical)

#### Communication

- **CAN FD Controller** Microchip MCP2518FDT-H
- **CAN FD Transceiver** TI TCAN1057AVDRQ1
- **Signal Support** CAN\_H, CAN\_L
- **Protocol** CAN 2.0 A/B, CAN FD
- **Data Transfer Rate** Programmable up to 8 Mbps
- **CAN Frequency** 40MHz

#### Protection

- **Isolation Protection** 2,500 V<sub>DC</sub>

#### Mechanical and Environmental

- **Operating Temperature** -40°C to 85°C (-40°F to 185°F)
- **Storage Temperature** -40°C to 85°C (-40°F to 185°F)
- **Operating Humidity** Up to 90% RH, non-condensing
- **Dimensions (L x H)** 175 x 100 x 18 mm<sup>3</sup> (6.9 x 3.9 x 0.7 in.<sup>3</sup>)

### Ordering Information

- **PCIE-1682F-A** 2-Port CANFD Bus PCIE Card with Isolation Protection

#### Accessories

- **OPT1-DB9E-AE** DB9 to 10-pin wiring board