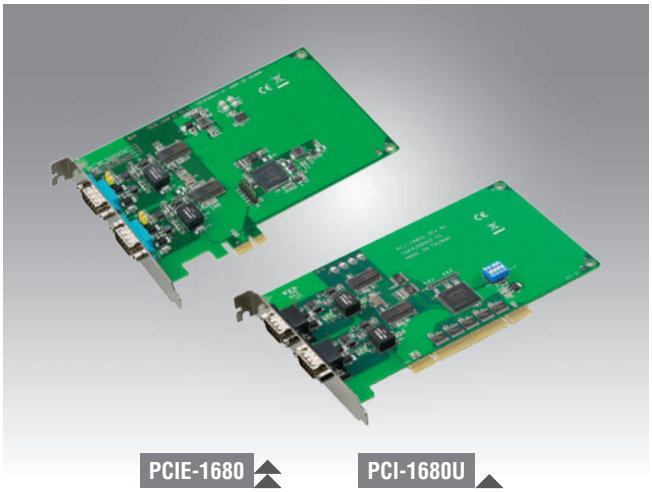
PCIE-1680
PCI-1680U

2-Port CAN Bus PCIE Card with Isolation Protection

2-Port CAN Bus Universal PCI Card with Isolation Protection



FCC CE

Features

- PCIe bus specification 1.1 compliant
- 2 x Independent CAN ports
- Up to 1 Mbps transmission speeds
- 16 MHz CAN controller frequency
- Optical isolation protection of 2,500 V_{DC}
- Transmit/Receive status LED indicators
- Windows DLL library and examples included
- Supports latest Windows system
- Supports Linux SocketCAN

Introduction

PCI-1680 and PCIE-1680 are purpose-built communication cards that ensure CAN connectivity. With 2 independent CAN controllers built in, PCI-1680 and PCIE-1680 enable bus arbitration and error detection with automatic transmission repetition, drastically reducing data loss and ensuring system reliability. Additionally, both PCI-1680 and PCIE-1680 operate at baud rates of up to 1 Mbps.

Specifications

General

- **Bus Type** PCI Express V1.0/Universal PCI
- **Certification** CE, FCC
- **Connectors** 2 x DB9, male
- **Ports** 2
- **Power Consumption** 3.3 V @ 600 mA (typical)

Communication

- **CAN Controller** NXP SJA-1000
- **CAN Transceiver** NXP TJA1051T
- **Signal Support** CAN_H, CAN_L
- **Protocol** CAN 2.0 A/B
- **Data Transfer Rate** Programmable up to 1 Mbps
- **CAN Frequency** 16MHz

Protection

- **Isolation Protection** 2,500 V_{DC}

Mechanical and Environmental

- **Operating Temperature** 0 ~ 70 °C (32 ~ 158 °F) (refer to IEC 60068-2-1, 2)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 5 ~ 95% relative humidity, non-condensing
- **Dimensions (L x H)** PCIE-1680: 168 x 111 mm
  PCI-1680U: 170 x 106 mm

Ordering Information

- **PCIE-1680-B** 2-port CAN bus PCIE card with isolation protection
- **PCI-1680U-BE** 2-port CAN bus PCI card with isolation protection

Accessories

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

All product specifications are subject to change without notice.