**Features**
- PCI Express V1.0/Universal PCI
- 2 x Independent CAN Ports
- Up to 1 Mbps transmission speeds
- 16 MHz CAN controller frequency
- Optical isolation protection of 2,500 Vdc
- I/O address automatically assigned by PCI PnP
- Transmit/Receive status LED indicators
- Windows DLL library and examples included
- Supports Windows CE5/CE6/XP/7/8.1/10 drivers and utilities
- Supports Linux 2.4.xx/2.6.xx, QNX 6.5, and Intel® x86 architecture

**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 Vdc

**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)**: 168 x 111 mm (6.6” x 4.4”)

**Ordering Information**
- **PCIE-1680-AE**: 2-port CAN bus PCIE card with isolation protection
- **PCI-1680-BE**: 2-port CAN bus PCI card with isolation protection

Last updated: 27-Jun-2018
All product specifications are subject to change without notice.