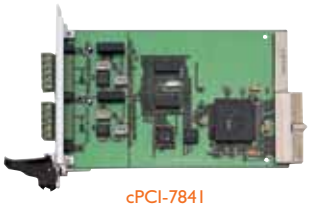
PCI-7841 / cPCI-7841

Dual-port Isolated CAN Interface Cards

PCI-7841



cPCI-7841

Introduction

The PCI-7841/cPCI-7841 is a Controller Area Network (CAN) interface card. It supports a dual-port CAN interface that can run independently or bridged together. The built-in CAN controller is a Philips SJA1000, which provides bus arbitration and error detection with auto correction and re-transmission functionality.

Controller Area Network

The CAN (Controller Area Network), a serial bus system originally developed by Bosch for use in automobiles, is increasingly used for industry automation. Its multi-master protocol, real-time capability, error correction and high noise immunity makes it especially suited for intelligent I/O devices control network.

Features

- **Two independent CAN network operation**
- **Up to 1 Mbps programmable transfer rate**
- **16 MHz CAN controller frequency**
- **2500 VRMS isolation protection**
- **Direct memory mapping to the CAN controllers**
- **Powerful master interface for CAN bus protocols**
- **PCI bus plug-and-play**
- **Supports Windows® 2000/XP and Linux operation systems**
- **Only supports CompactPCI interface 5V V(I/O)**

Software Support

PCI-7841

- Dos driver
- Windows® NT/2000/XP
- Linux driver

cPCI-7841

- Dos driver
- Windows® NT/2000/XP
- Linux driver

Specifications

Ports 2	CAN channels (V2.0 A, B)
CAN Controller	SJA1000
CAN Transceiver	82C250/251
Isolation Voltage	2500 VRMS
Connectors	Dual DB9 male connectors for PCI-7841
	5-pin screw terminal for cPCI-7841
Operating Temperature	0 to +60°C
Storage Temperature	-20°C to +80°C
Humidity	5 to 95%, non-condensing
Power Consumption	+5 V @ 400 mA typical, @ 900 mA max.
Dimensions	PCI-7841: 132 mm x 107 mm (H x L)
	cPCI-7841: 100 mm x 160 mm (H x L)

Ordering Information

PCI-7841
Dual-port isolated CAN interface card

cPCI-7841
Dual-port isolated CAN interface card in 3U CompactPCI form factor

cPCI-7841R
Dual-port isolated CAN interface card in 3U CompactPCI form factor with rear I/O support