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 V$_{RMS}$ 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 (I/O)**

Software Support

■ PCI-7841
  - Dos driver
  - Windows® NT/2000/XP/7
  - Linux driver

■ cPCI-7841
  - Dos driver
  - Windows® NT/2000/XP/7
  - Linux driver

Specifications

■ Ports 2	CAN channels (V2.0 A, B)	
■ CAN Controller	SJA1000	
■ CAN Transceiver	82C250/251	
■ Isolation Voltage	2500 V$_{RMS}$	
■ 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