

PCI-784 I / cPCI-784 I

Dual-port Isolated CAN Interface Cards



Introduction

The PCI-784 I/cPCI-784 I 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-784 I**
 - Dos driver
 - Windows® NT/2000/XP/7
 - Linux driver
- **cPCI-784 I**
 - 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-784 I 5-pin screw terminal for cPCI-784 I
■ 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-784 I: 132 mm x 107 mm (H x L) cPCI-784 I: 100 mm x 160 mm (H x L)

Ordering Information

- **PCI-784 I**
Dual-port isolated CAN interface card
- **cPCI-784 I**
Dual-port isolated CAN interface card in 3U CompactPCI form factor
- **cPCI-784 I R**
Dual-port isolated CAN interface card in 3U CompactPCI form factor with rear I/O support

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