

# PCI-784I / cPCI-784I

## Dual-port Isolated CAN Interface Cards



### Introduction

The PCI-784I/cPCI-784I 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 (I/O)

### Software Support

- **PCI-784I**
  - Dos driver
  - Windows® NT/2000/XP/7
  - Linux driver
- **cPCI-784I**
  - 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 VRMS                                                                   |
| ■ Connectors            | Dual DB9 male connectors for PCI-784I<br>5-pin screw terminal for cPCI-784I |
| ■ 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-784I: 132 mm x 107 mm (H x L)<br>cPCI-784I: 100 mm x 160 mm (H x L)     |

### Ordering Information

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