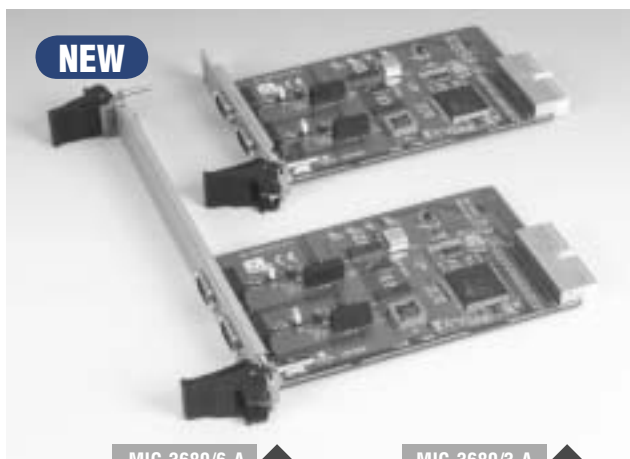


# MIC-3680

## 2-port Isolated CAN Communication Card



### Features

- CompactPCI specification PICMG 2.0 R3.0 compatible
- Hot swap support
- Two individual CAN ports
- Supports CAN2.0 A/B
- High speed transmission up to 1 Mbps
- 16 MHz CAN controller frequency
- Optical isolation up to 2,500 V<sub>DC</sub>
- Microsoft® Windows® DLL library and examples included
- Supports Windows 98/ME/2000/XP drivers and utility

### Introduction

MIC-3680 is special purpose communication card that offers connectivity to the Controller Area Network (CAN) protocol on your CompactPCI system. With its built-in CAN controllers, MIC-3680 provides bus arbitration and error detection with an automatic transmission repetition function. This drastically reduces the chance of data loss and ensures system reliability. You can run both CAN controllers independently at the same time. MIC-3680 operates at baud rates up to 1 Mbps and can be installed in a CompactPCI expansion slot.

CAN is a serial bus system especially suited for networking "intelligent" I/O devices as well as sensors and actuators within a machine or plant. Characterized by its multi-master protocol, real-time capability, error correction, high noise immunity, and the existence of many different silicon components, the CAN serial bus system, originally developed by Bosch® for use in automobiles, is increasingly being used in industrial automation.

### Specifications

#### Communications

- **CAN Controller Frequency** 16 MHz
- **CAN Transceiver** 82C250
- **Communication Controller** SJA-1000
- **Ports** 2
- **Protocol** CAN 2.0 A/B
- **Signal Support** CAN\_H, CAN\_L, GND
- **Speed (bps)** Up to 1 Mbps programmable transfer rate

#### Protection

- **Isolation Protection** 2,500 V<sub>DC</sub>

#### General

- **PICMG Compliance** CompactPCI V2.0, R 3.0  
Hot-Swap V2.1, R 2.0
- **Bus Type** CompactPCI
- **I/O Connectors** 2 x DB9-M
- **Dimensions** 160 x 100 mm (6.3" x 3.9")
- **Power Consumption** 5 V @ 400 mA (Typical)
- **Operating Temperature** 0 ~ 65° C
- **Storing Temperature** -25 ~ 85° C
- **Storing Humidity** 5 ~ 95% RH, non-condensing

### Ordering Information

- **MIC-3680/3-A** 3U CompactPCI 2-port isolated CAN communication card
- **MIC-3680/6-A** 6U CompactPCI 2-port isolated CAN communication card
- **MIC-3680R/3-A** 3U CompactPCI 2-port isolated CAN communication card with Rear I/O support
- **MIC-3680R/6-A** 6U CompactPCI 2-port isolated CAN communication card with Rear I/O support