

CAN Communication Card

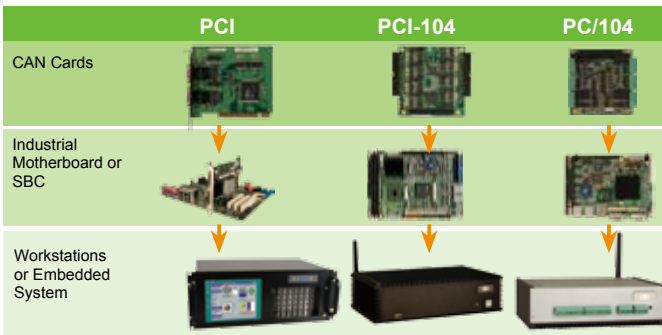
• Introduction

The Control Area Network (CAN) is a serial bus system, originally developed by Bosch for use in automobiles, and now is increasingly being used in industrial automation. IEI CAN communication cards offer the connectivity of the Control Area Network (CAN) to your system. With built-in CAN controllers, the IEI CAN provides bus arbitration and error detection with an automatic transmission repeat function. This drastically reduces the chance of data loss and ensures system reliability, and are suitable for networking intelligent I/O devices such as sensors or actuators of machines or plants, and on-board optical isolators along with additional protection design protect your system and equipment against damage from ground loops and electrostatic discharge (ESD) pulses, which increase system reliability in harsh environments.



• Application

IEI provides PCI, PCI-104, and PC/104 CAN communication cards for integrating into IEI single board computers, IEI workstations, and IEI embedded systems which support, PCI-104, or PC/104 interface.



• Software Support

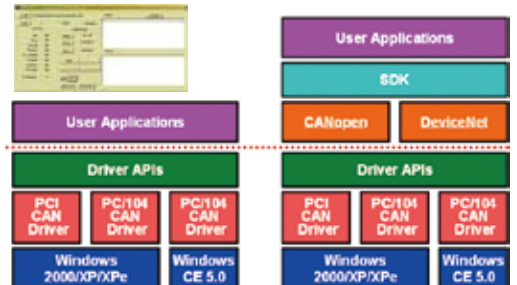
• OS support

Windows® XP, Windows® XPe or Windows® CE 5.0



• Software Development Kits (SDK)

- Driver Application Programming Interfaces (APIs)
- Diagnostics and Testing Utility
- Demo application software with source code



• Selection Guide



Model Name		IPCI-1680	PM-1680	PM-3001	PM-3004
Bus		PCI	PCI-104	PC/104	PC/104
CAN Communication Interfaces	Ports	2	2	2	2
	Isolated Protection	3000 Vdc	3000 Vdc	3000 Vdc	3000 Vdc
Digital Input	Input Channel	-	-	8 x Isolated DI	8 x Isolated DI
	Isolated Protection	-	-	2000 Vdc	2000 Vdc
Digital Output	Output Channel	-	-	8 x Isolated DO	8 x Isolated DO
	Isolated Protection	-	-	2000 Vdc	2000 Vdc
Analog Input	Input Channel	-	-	-	2 x AI (Thermocouple)
	Resolution	-	-	-	16-bit
	Voltage Input	-	-	-	±15 mV, ±50 mV, ±100 mV, ±500 mV ±1 V, ±2.5 V
	Current Input	-	-	-	±20 mA
	Direct Sensor Input	-	-	-	J : 0 ~ 760°C, K : 0 ~ 1370°C T : -100 ~ 400°C, E : 0 ~ 1000°C
Driver Support		Windows® 2000, Windows® XP, Windows® XPe and Windows® CE 5.0			

IPCI-1680-CBM

2-port isolated protection CAN communication bus PCI card



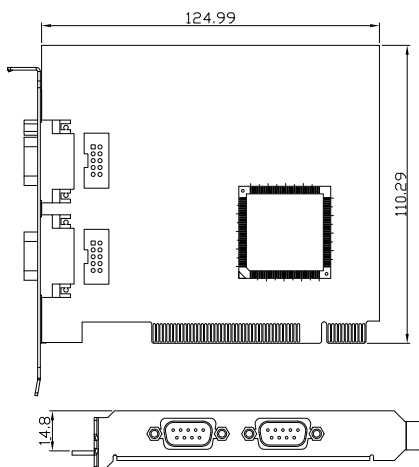
Features

1. PCI Revision 2.2 compliant
2. Two independent CAN bus communication ports.
3. Compatible with CAN Specifications 2.0
4. On-board optical isolation protection.
5. Programmable transfer rate up to 1 Mbps.
6. Jumper settings for dual ports select 120 Ω terminator resistor.

Specifications

- ◆ Bus Interface
PCI Revision 2.2 compliant
- ◆ Number of Ports
Two
- ◆ CAN controller
Philips SJA1000T
- ◆ CAN transceiver
Philips PCA82C251
- ◆ Signal Support:
CAN_H, CAN_L
- ◆ Speed (bps)
1 Mbps
- ◆ Connectors
DB-9 male on bracket or dual 2 x 5 pin internal 2.54 pitch box header
- ◆ Isolated Protection
3000 Vdc
- ◆ Power consumption
5 V @ 400 mA
- ◆ Temperature: Operating:
-5°C~ 65°C (23°F~ 149°F)
- ◆ Humidity
Operating: 5% ~95%
Non-condensing
- ◆ Drive Support
Windows® XP / Windows® XP Embedded / Windows® CE 5.0

Dimensions (Unit : mm)



Packing List

- 1 x IPCI-1680-CBM CAN Bus PCI Card
- 1 x Mini Jumper Pack
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
IPCI-1680-CBM-R10	2-port isolated protection CAN communication bus PCI card

PM-1680-CBM

2-port isolated protection CAN communication bus PCI-104 module



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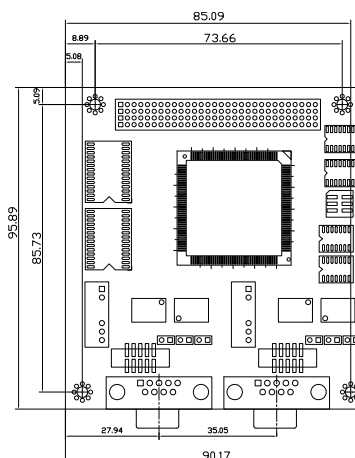
Features

1. Interface PCI-104 Module
2. Two independent CAN bus communication ports.
3. Compatible with CAN Specifications 2.0
4. On-board optical isolation protection.
5. Programmable transfer rate up to 1 Mbps.
6. Jumper settings for dual ports select 120 Ω terminator resistor.

Specifications

- ◆ Bus Interface
PCI-104
- ◆ Number of Ports
Two
- ◆ CAN controller
Philips SJA1000T
- ◆ CAN transceiver
Philips PCA82C251
- ◆ Signal Support
CAN_H, CAN_L
- ◆ Speed (bps)
1 Mbps
- ◆ Connectors
Port #1 output is connected to two 9pin d-sub connectors, one is male and the other is female.
- ◆ Port #2 output is connected to one 2x5 header.
- ◆ Isolated Protection
3000 Vdc
- ◆ Power consumption
5 V @ 400 mA
- ◆ Temperature: Operating:
-5°C~ 65°C (23°F~ 149°F)
- ◆ Humidity
Operating: 5% ~95%
Non-condensing
- ◆ Drive Support
Windows® XP / Windows® XP Embedded / Windows® CE 5.0

Dimensions (Unit : mm)



Packing List

- 1 x PM-1680-CBM CAN Bus PCI-104 Module
- 1 x Mini Jumper Pack
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
PM-1680-CBM-R10	2-port isolated protection CAN communication bus PCI-104 module

1
Application
Server
Platform

2
Single
Board
Computer

3
IBX Series
POS PC

4
AFOLUX
POS
Panel PC

5
Video
Capture
Card

6
KAMIO
RISC

7
IOVU
Open HMI

8
VITO
Universal
Controller

9
DINO
BLADE

10
LCD
Product
Series

11
Embedded
System

12
Industrial
Computer
Chassis

13
Power
Supply

14
Peripherals