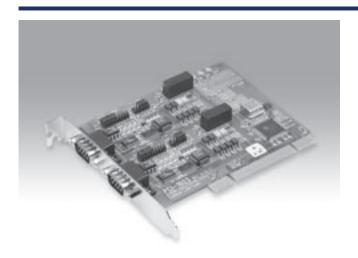
PCI-1603

2-port Isolated RS-232/Current-loop **PCI Communication Card**



Features

- Two independent RS-232 or Current-loop serial ports
- Each port can be individually configured to RS-232 or current-loop
- 16PCI952 FIFO UART (128-byte FIFO)
- PCI bus specification 2.2 compliant
- Speeds: RS-232: 50 bps ~ 230.4 kbps Current-loop: 57.6 kbps
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows® 98/ME/2000/XP/XP Embedded, Linux
- Interrupt status register for increased performance
- Powerful and easy-to use utility (ICOM Tools)
- Universal PCI (Supports 3.3 V or 5 V PCI bus signal)



Introduction

PCI-1603 offers a versatile range of high-speed interfacing options. You can switch its ports between the popular RS-232 or noise-resistant current-loop. The card utilizes 16PCI952 UARTs with 128-byte FIFO buffer for faster and more reliable communication, especially under multi-tasking environments such as Windows operating systems.

PCI-1603 provides two isolated RS-232 or current-loop serial ports. You can configure each port individually to RS-232 or current-loop using onboard jumpers.

The card utilizes 16PCI952 UART that buffers data into packets before sending it to the bus. This drastically reduces CPU load and avoids data loss when the system is busy and cannot process an interrupt quickly. These FIFO buffers make the PCI-1603 especially suitable for high speed serial I/O under Windows.

Onboard optical isolators protect your PC and equipment against damage from ground loops, increasing system reliability in harsh environments.

Specifications

General

Universal PCI V 2.2 Bus Type Certifications CE. FCC class A Connectors 2 x DB9-M

Dimensions 123 x 92 mm (4.8" x 3.6") +5 V (250 ~ 300 mA) Power Consumption

Current-loop Interface

Baud-rate 50 ~ 57600 bps Current Value 20 mA (Standard) Mode Asynchronous, full duplex

 Signal Driver/receiver 6N136

Signals TxD+, TxD-, RxD+, RxD-

• Transmission Distance 1000 m

Communications

Communication 16PCI952 Controller

5, 6, 7, 8 Data Bits

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI,GND Data Signals

Current Loop: Tx+, Tx-, Rx+, Rx-

FIF0 128 bytes Flow Control RTS/CTS, Xon/Xoff IRQ Assigned by Plug & Play Parity None, even, odd

RS-232: 50 bps ~ 230.4 kbps Speed

Current Loop: 50 bps ~57.6 kbps

Stop Bits 1.1.5.2

Software

Bundled Software

 Driver Support Windows 98/ME/2000/XP/XP embedded. Linux

Protection

ESD Protection

 Isolation Protection 3,000 V_{DC} for RS-232 and current-loop

Environment

■ **Humidity (Operating)** 5 ~ 95% RH. non-condensing (refer to IEC 68-2-3) • Operating Temperature $0 \sim 65^{\circ}$ C (refer to IEC 68-2-1, 2) (32 \sim 149° F)

■ **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

 PCI-1603 2-port Isolated RS-232/current-loop PCI Comm. Card