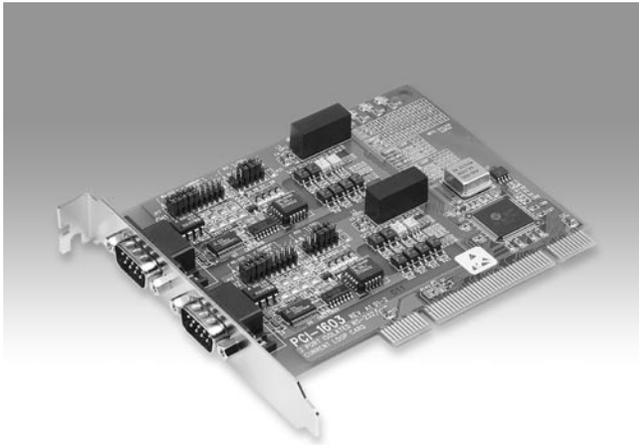


# PCI-1603

## 2-port RS-232 Current-loop PCI Communication Card with Isolation Protection



### 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.

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.

### Specifications

#### General

- **Bus Type** Universal PCI V 2.2
- **Certifications** CE, FCC class A
- **Connectors** 2 x DB9-M
- **Dimensions** 123 x 92 mm (4.8" x 3.6")
- **Power Consumption** +5 V (250 ~ 300 mA)

#### 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 Controller** 16PCI952
- **Data Bits** 5, 6, 7, 8
- **Data Signals** RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND  
Current Loop: Tx+, Tx-, Rx+, Rx-
- **FIFO** 128 bytes
- **Flow Control** RTS/CTS, Xon/Xoff
- **IRQ** Assigned by Plug & Play
- **Parity** None, even, odd
- **Speed** RS-232: 50 bps ~ 230.4 kbps  
Current Loop: 50 bps ~ 57.6 kbps
- **Stop Bits** 1, 1.5, 2

#### Software

- **Bundled Software** ICOM Tools
- **Driver Support** Windows 98/ME/2000/XP/XP embedded, Linux

#### Protection

- **ESD Protection** 16 kV
- **Isolation Protection** 3,000 V<sub>DC</sub> for RS-232 and current-loop

#### Environment

- **Humidity (Operating)** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Operating Temperature** 0 ~ 65° C (refer to IEC 68-2-1, 2) (32 ~ 149° F)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)

### Ordering Information

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