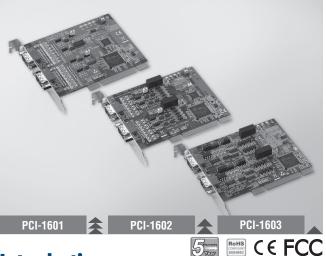
PCI-1601 PCI-1602 PCI-1603

2-port RS-422/485 Universal PCI Communication Card 2-port RS-422/485 Universal PCI Communication Card with Isolation Protection

2-port RS-232/Current-loop Universal PCI Communication **Card with Isolation Protection**



Features

- PCI bus 2.2 compliant
- Supports serial speed up to 921.6 kbps, and any baud rate setting
- 2-port RS-422/485 interface (PCI-1601/PCI-1602)
- 2 independent RS-232 or Current-loop serial ports (PCI-1603)

ICOM Tools

- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows 2K/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX
- Interrupt status register for increased performance

Introduction

The PCI-1601 and PCI-1602 are two RS-422/485 PCI communication cards that are compatible with the PCI 2.2 bus specification. Both cards provide EFT protected RS-422/485 ports, and come with features such as: high transmission speed of 921.6 kbps, optional isolation protection, windows utility software and more. The cards also come with high-performance OXuPCI952 UART with a 128-byte FIFO to reduce CPU load. This makes the PCI-1601 and PCI-1602 especially suitable for multitasking environments.

The 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 OXuPCI952 UART with 128-byte FIFO buffer for faster and more reliable communication, especially under multi-tasking environments such as Windows operating systems. The card utilizes OXuPCI952 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
- Certification
- Connectors

Baud-rate

Mode

Signals

- Dimensions (L x W)
- **Power Consumption** 300 mA @ +5V

Current-loop Interface (PCI-1603)

50 ~ 57600 bps **Current Value** 20 mA (Standard) Asynchronous, full duplex Signal Driver/Receiver 6N136 TxD+, TxD-, RxD+, RxD-1,000 m (RS-422/485 mode only)

Universal PCI v2.2

123 x 92 mm (4.8" x 3.6")

CE. FCC class A

2 x Male DB9

Transmission Distance

Communications Communications

OXuPCI952	
5, 6, 7, 8	

128 bytes RTS/CTS. Xon/Xoff

Assigned by Plug & Play

Current-loop mode only)

1, 1.5, 2

None, Even, Odd, Mark and Space

50 bps ~ 921.6 kbps, any baud rate setting 230.4 kbps (PCI-1601B, PCI-1602 and PCI-1603 in

- Controller Data Rits
- Data Signals
- RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND RS-485: Data+, Data-, GND RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
- FIF0
- Flow Control
- IRO Parity
- Speed
- Stop Bits

Protection

- ESD Protection
- EFT Protection

8	KV (air),	4 KV	(contact)	
1	KV			

Model Name Surge Protection Isolation Protection PCI-1601A PCI-1601B $1000 V_{\text{DC}}$ PCI-1602 2500 VDC 1000 VDC PCI-1603 1000 VDC 2500 VDC

Software

- Bundled Software OS Support

Environment

- Humidity (Operating)
- **Operating Temperature** -10~60°C (14~144°F) Storage Temperature -25 ~ 85°C (-13 ~ 185°F)

Regulatory Approvals

EMC

EN 55011: 2009 + A1:2010, Group 1, Class A EN 55022: 2010, Class A EN 61000-6-4: 2007 EN 55024: 2010 EN 61000-6-2: 2005 IEC 61000-4-2: 2008 IEC 61000-4-3: 2006 +A1: 2007 +A2: 2010 IEC 61000-4-4: 2010 IEC 61000-4-6: 2008 IEC 61000-4-8: 2009 FCC 47 CFR Part 15 Subpart B (Class B), IC ICES-003 (2004)

32-bit/64-bit Windows 2000/XP/Vista/7.

Windows CE 5.0/6.0, Linux, and QNX

5~95 % RH, non-condensing

Ordering Information

- PCI-1601A PCI-1601B
- PCI-1602
- PCI-1603
- 2-port RS-422/485 PCI Comm. Card 2-port RS-422/485 PCI Comm. Card w/Surge 2-port RS-422/485 PCI Comm. Card w/Surge+Iso 2-port RS-422/2007 Comm. Card w/Surge+Iso
- w/Surge+lso

ADVANTECH Last updated : 19-Mar-2014

All product specifications are subject to change without notice