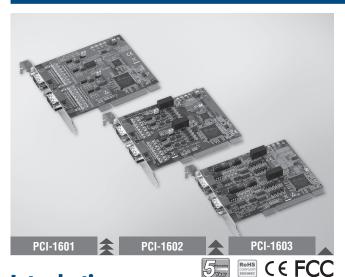
PCI-1601 PCI-1602 **PCI-1603**

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)
- 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 highperformance OXuPCl952 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 Universal PCI v2.2 Certification CE. FCC class A Connectors 2 x Male DB9 Dimensions (L x W) 123 x 92 mm (4.8" x 3.6")

Power Consumption

300 mA @ +5V

Current-loop Interface (PCI-1603)

Baud-rate 50 ~ 57600 bps **Current Value** 20 mA (Standard) Asynchronous, full duplex Mode Signal Driver/Receiver

TxD+, TxD-, RxD+, RxD-Signals 1,000 m (RS-422/485 mode only)

Transmission Distance

Communications Communications OXuPCI952 Controller 5678

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 Data Signals

FIF0

128 bytes RTS/CTS. Xon/Xoff Flow Control Assigned by Plug & Play IR0 Parity None, Even, Odd, Mark and Space Speed 50 bps ~ 921.6 kbps, any baud rate setting

230.4 kbps (PCI-1601B, PCI-1602 and PCI-1603 in

Current-loop mode only)

Stop Bits 1, 1.5, 2

Protection

Data Rits

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

EFT Protection

| Model Name | Surge Protection | Isolation Protection |
|------------|----------------------|----------------------|
| PCI-1601A | - | - |
| PCI-1601B | 1000 V _{DC} | - |
| PCI-1602 | 1000 V _{DC} | 2500 V _{DC} |
| PCI-1603 | 1000 V _{DC} | 2500 V _{DC} |

Software

 Bundled Software ICOM Tools

32-bit/64-bit Windows 2000/XP/Vista/7. **OS Support** Windows CE 5.0/6.0, Linux, and QNX

Environment

Humidity (Operating) 5 ~ 95 % RH, non-condensing -10 ~ 60°C (14 ~ 144°F) **Operating Temperature** Storage Temperature -25 ~ 85°C (-13 ~ 185°F)

Regulatory Approvals

EN 55011: 2009 + A1:2010, Group 1, Class A EMC

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)

Ordering Information

PCI-1601A 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+lso PCI-1601B PCI-1602 PCI-1603 2-port RS-232/Current Loop PCI Comm. Card

w/Surge+Iso

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