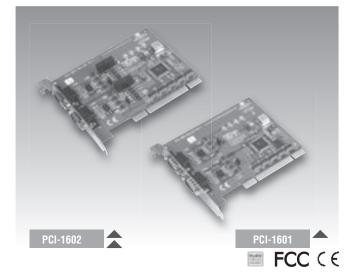
# PCI-1601 PCI-1602

2-port RS-422/485 PCI Communication Card

2-port RS-422/485 PCI Communication Card, w/Isolation Protection



### **Features**

- PCI bus specification 2.2 compliant
- Speeds up to 921.6 kbps
- 2-port RS-422/485 interface
- I/O address automatically assigned by PCI Plug & Play
- OS support: Windows<sup>®</sup> 98/ME/2000/XP/XP Embedded, Linux
- Optional EFT Surge protection
- Optional isolation protection for RS-422/485
- Interrupt status register for increased performance
- Space reserved for termination resistors
- Automatic RS-485 data flow control
- Powerful and easy-to use utility (ICOM Tools)

## Introduction

PCI-1601 and PCI-1602 are 2 port RS-422/485 PCI communication cards that are compatible with the PCI 2.1 bus specification. Both cards provide two optional isolated and EFT surge protected RS-422/485 ports, and comes with features such as: high transmission speed of 921.6 kbps, optional EFT Surge & isolation protection, windows utility software and more. The cards also come with high-performance 16PCI952 UART with a 128-byte FIFO to reduce CPU load. This makes the PCI-1601 and PCI-1602 especially suitable for multitasking environments.

PCI-1602 is available with 3,000  $V_{DC}$  optical isolation to protect your PC and equipment against damages from ground loops in harsh environments. To further increase reliability, both boards has EFT surge protection technology, protecting your system from abrupt high voltages up to 2,500  $V_{DC}$  (PCI-1601B and PCI-1602B). Besides, Advantech also provides a convenient utility program called ICOM Tools, to help test the PCI card performance by analyzing the port status. Controlled by easy-to-use menu commands and toolbar buttons, ICOM Tools acts as a PC-based data scope that lets you set a trigger condition, capture the communications data and monitors the signal status. In addition, ICOM Tools is applicable to all series of Advantech ICOM cards.

Protection

## **Specifications**

#### General

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<ul> <li>Bus Type</li> </ul>	PCI V 2.2		ESD Protection		16 kV
<ul> <li>Certifications</li> </ul>	CE, FCC class A		Isolation Protection	lation Protection	3,000 V <sub>DC</sub> (PCI-1602A/B only)
<ul> <li>Connectors</li> </ul>	2 x DB9-M		EFT Surge Protection	2,500 V <sub>DC</sub> (PCI-1601B/PCI-1602B only)	
<ul> <li>Dimensions</li> </ul>	123 x 92 mm (4.8" x 3.6")		Softw	are	
<ul> <li>Power Consumption PCI-1601 PCI-1602</li> </ul>	Typical 220 mA (+5 V) 250 mA (+5 V)	Max 270 mA (+5 V) 300 mA (+5 V)	• Bur	ndled Software ver Support	ICOM Tools Windows 98/ME/2000/XP/XP Embedded, Linux
Communications			Envir	onment	
<ul> <li>Communications Controller</li> </ul>	16PCI952			nidity (Operating) erating Temperature	5 ~ 95 % RH, non-condensing (refer to IEC 68-2-3) 0 ~ 65° C (refer to IEC 68-2-1, 2) (32 ~ 149° F)
<ul> <li>Data Bits</li> </ul>	5, 6, 7, 8		<ul> <li>Sto</li> </ul>	rage Temperature	-25 ~ 85° C (-13 ~ 185° F)
<ul> <li>Data Signals</li> </ul>	(RS-422) Data+, Data-	S+, RTS-, CTS+, CTS-, GND -, GND (RS-485)	Ordering Information		
• FIFO	128 bytes		PCI	-1601A	2-port RS-422/485 PCI COMM Card
Flow Control	RTS/CTS. Xon/Xoff			-1601B	2-port RS-422/485 PCI COMM Card, w/EFT Surge
= IRQ	Assigned by Plug & Play None, even, odd 50 bps ~ 921.6 kbps		- 10	-1001D	Protection
<ul><li>Parity</li><li>Speed</li></ul>			• PCI	-1602A	2-port RS-422/485 PCI COMM Card, w/Isolation Protection
<ul> <li>Stop Bits</li> </ul>	1, 1.5, 2		• PCI	-1602B	2-port RS-422/485 PCI COMM Card, w/Isolation and EFT Surge Protection

#### AD\ANTECH Plug-in Communication