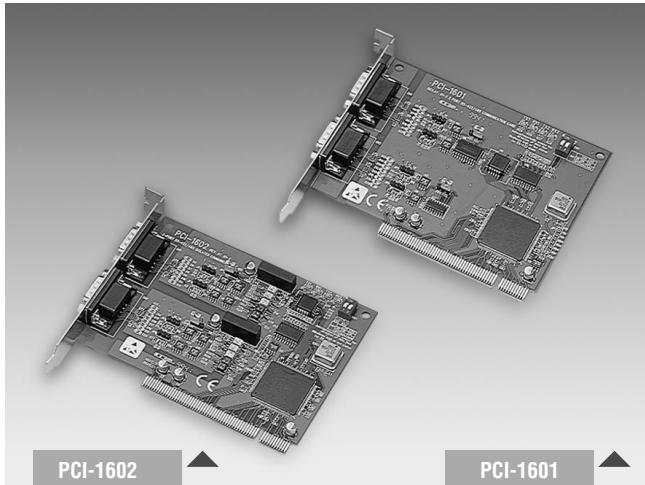# PCI-1601A/B
PCI-1602A/B

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

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

PCI-1602   PCI-1601

CE

Features

- PCI bus specification 2.1 compliant
- Speeds up to 921.6 Kbps
- 2-port RS-422/485 interface
- I/O address automatically assigned by PCI plug-and-play
- OS support: Windows® 95/98/NT/2000/XP, Linux
- Optional 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

The PCI-1601/1602 is a 2 port RS-422/485 PCI communication card. It is compatible with PCI 2.1 bus specification. The PCI-1601/1602 provides two optional isolation/surge protection RS-422/485 ports to meet user's needs. It features lots of functions such as high transmission speed 921.6 Kbps; optional surge & isolation protection; windows utility etc. PCI-1601/1602 also comes with high-performance 16PCI954 UART with 128-byte FIFO to reduce CPU load. This makes the PCI-1601/1602 especially suitable for multitasking environments.

The PCI-1601/1602 is available with 3000 V_{DC} optical isolation (PCI-1602A/B) to protect your PC and equipment against damages form ground loops in harsh environments. To further increase reliability, the board offers surge protection technology, protecting your system from abrupt high voltage 2500Vdc(PCI-1601B/1602B). Besides, Advantech also provides a convenient utility program, ICOM Tools, to help users test the PCI card performance by analyzing the port status. It's easy to use the menu commands and toolbar buttons. ICOM Tools acts as a PC-based data scope that lets you set a trigger condition, captures the communication data and monitors the signal status. In addition, ICOM Tools is applicable to all series of Advantech ICOM cards.

Specifications

- **Bus Interface**   PCI bus spec. 2.1 compliant
- **All ports use the same IRQ assigned by PCI plug-and-play**
- **Data Bits**   5, 6, 7, 8
- **Stop Bits**   1, 1.5, 2
- **Parity**   None, even, odd
- **Communication Controller**   16PCI954
- **Speed**   50 bps ~ 921.6 Kbps
- **Data Signals**   TxD, RxD, RTS, CTS (RS-422/485)
- **Surge Protection**   2500 V_{DC} (PCI-1601B/PCI-1602B only)
- **Isolation Protection**   3000 V_{DC} (PCI-1602A/B only)
- **Power Consumption**

	Typical	Max
PCI-1601	220 mA (+5 V)	270 mA (+5 V)
PCI-1602	250 mA (+5 V)	300 mA (+5 V)

- **Dimensions**   123 x 92 mm
- **Operating Temp.**   0 ~ 65° C (refer to IEC 68-2-1, 2) (32 ~ 149° F)
- **Operating Humidity**   5 ~ 95 % Relative Humidity, non-condensing (refer to IEC 68-2-3)
- **Storage Temperature**   -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **PCI-1601A**   2-port RS-422/485 PCI COMM Card
- **PCI-1601B**   2-port RS-422/485 PCI COMM Card, w/surge protection
- **PCI-1602A**   2-port RS-422/485 PCI COMM Card, w/isolation
- **PCI-1602B**   2-port RS-422/485 PCI COMM Card, w/isolation and surge protection

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