PCI-1611U

4-port RS-422/485 Universal PCI **Communication Card with Isolation & EFT Surge Protection**



Features

- PCI bus Specification 2.2 compliant
- Speeds up to 921.6 kbps
- 4-port RS-422/485
- 16PCI954 UARTs with 128-byte FIFOs standard
- 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 •
- Space reserved for termination resistors
- Automatic RS-485 data flow control
- Powerful and easy to use utility (ICOM Tools)
- Universal PCI (Supports 3.3 V or 5 V PCI bus signal)
- 2,500 V_{DC} EFT Surge Protection
- 2,000 V_{DC} Isolation Protection

Introduction

PCI-1611U is a 4-port RS-422/485 PCI communication card that is compatible with the PCI 2.2 bus specification. The PCI-1611U provides many functions such as four independent RS-422/485 ports with isolation protection, high transmission speed of 921.6 kbps, and EFT surge protection. PCI-1611U also comes with high-performance 16PCI954 UARTs with a 128-byte FIFO to reduce CPU loading. These components make your system more stable and reliable. Thus, the PCI-1611U is especially suitable for multitasking environments.

To improve the performance of the system, the PCI-1611U allows transmission rates up to 921.6 kbps, and to further increase reliability, the PCI-1611U offers EFT surge protectiontechnology, protecting your system from abrupt high voltages up to 2,500 Vpc. Besides, Advantech also provides a convenient utility program, ICOM Tools, to help you test the PCI card's performance by analyzing the port status. The easy-to-use graphical user interface of ICOM Tools works like a PC-based data scope that lets you set trigger conditions to capture communication data and monitor a signal's status. ICOM Tools is applicable to all series of Advantech ICOM cards.

Specifications

General

- Bus Type
- Certifications

CE. FCC class A 1 x DB37-F

Universal PCI V 2.2

- Connectors Dimensions

185 x 100 mm (7.3" x 3.9") Power Consumption

Communications

- Communication Controller
- Data Bits
- Data Signals
- FIFO
- Flow Control
- IRQ
- Parity
- Speed
- Stop Bits

Protection

- ESD Protection
- Isolation Protection 2,000 V_{DC}
- EFT Surge Protection 2,500 VDC

Software

- Bundled Software
- Driver Support

Environment

PCI-1611U/9

Operating Temperature 0 ~ 65° C (refer to IEC 68-2-1, 2), (32 ~ 149° F)

ICOM Tools

 Humidity (Operating) 5 ~ 95 % Relative Humidity, non-condensing (refer to IEC 68-2-3) Storage Temperature -25 ~ 85° C (-13 ~ 185° F)

Windows 98/ME/2000/XP/XP Embedded, Linux

Ordering Information

- PCI-1611U
 - 4-port RS-422/485 Universal PCI Communication Card, w/Isolation & EFT Surge Protection (30 cm DB37 to 4 DB25 cable included) 4-port RS-422/485 Universal PCI Communication Card. w/Isolation & EFT Surge Protection (30 cm DB37 to 4 DB9 cable included)

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600 mA @ 5 V 16PCI954

RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-,

- 5, 6, 7, 8
- - RS-485: Data+, Data-, GND 128 bytes

GND

RTS/CTS, Xon/Xoff

50 bps ~ 921.6 kbps

None, even, odd

1, 1.5, 2

16 kV

Assigned by Plug & Play