PCI-1611U
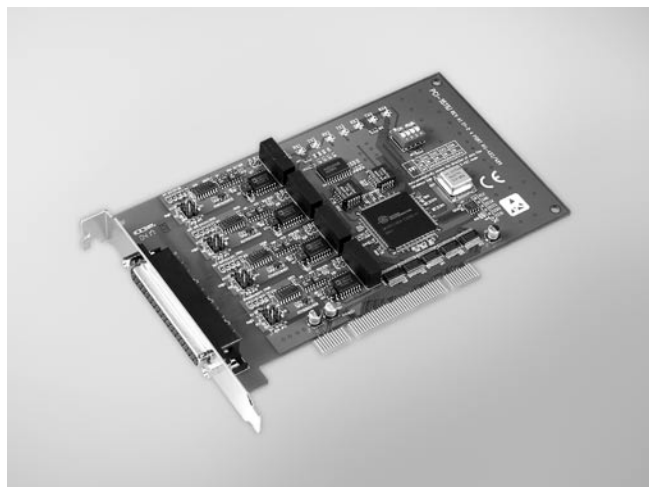
4-port RS-422/485 Universal PCI Communication Card with Isolation & EFT Protection

FCC CE

Features

- PCI bus 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/Vista, Windows CE 5.0/6.0, 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 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 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 protectiontechnology, protecting your system from abrupt high voltages up to 2,500 V_{DC}. 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**   Universal PCI V 2.2
- **Certifications**   CE, FCC class A
- **Connectors**   1 x DB37-F
- **Dimensions**   185 x 100 mm (7.3" x 3.9")
- **Power Consumption** 600 mA @ 5 V

Communications

- **Communication Controller**   16PCI954
- **Data Bits**   5, 6, 7, 8
- **Data Signals**   RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND
  RS-485: Data+, Data-, GND
- **FIFO**   128 bytes
- **Flow Control**   RTS/CTS, Xon/Xoff
- **IRQ**   Assigned by Plug & Play
- **Parity**   None, even, odd
- **Speed**   50 bps ~ 921.6 kbps
- **Stop Bits**   1, 1.5, 2

Protection

- **ESD Protection**   16 kV
- **Isolation Protection** 2,000 V_{DC}
- **EFT Protection**   2,500 V_{DC}

Software

- **Bundled Software**   ICOM Tools
- **OS Support**   Windows 98/ME/2000/XP/XP Embedded, Windows CE 5.0/6.0, Linux

Environment

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

Ordering Information

- **PCI-1611U**   4-port RS-422/485 Uni PCI Comm Card, 4 x DB25
- **PCI-1611U/9**   4-port RS-422/485 Uni PCI Comm Card, 4 x DB9

Note: 30 cm DB37 to 4 x DB25 or DB37 to 4 x DB9 cable included