

PCI-1622CU

8-port RS-422/485 Universal PCI Communication Card with Isolation & EFT Protection



Features

- PCI 2.2 compliant
- Speeds up to 921.6 kbps
- 8-port RS-422/485
- 16PCI954 UARTs with 128-byte FIFOs standard
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux
- Interrupt status register for increased performance
- Space reserved for termination resistors
- Automatic RS-485 data flow control
- Supports any baud rate with high precision
- Universal PCI (supports 3.3 V or 5 V PCI bus signal)
- 2,500 V_{DC} EFT Protection
- 2,500 V_{DC} Isolation Protection

Introduction

PCI-1622CU is an 8-port RS-422/485 PCI communication card that is compatible with the PCI 2.2 bus specification. PCI-1622CU provides many functions such as eight independent RS-422/485 ports with isolation protection, high transmission speed of 921.6 kbps, protection and comes with high-performance 16PCI954 UARTs with a 128-byte FIFO to reduce CPU load. These components make your system more stable and reliable. Thus, the PCI-1622CU is especially suitable for multitasking environments.

Advantech provides a convenient utility program called ICOM Tools to help test the PCI card's performance by analyzing the port status. The menu commands and toolbar buttons of 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. ICOM Tools is applicable to all series of Advantech ICOM cards.

Specifications

General

- **Card Interface** Universal PCI V2.2
- **Certifications** CE, FCC class A
- **Connectors** 1 x DB78-F
- **Dimensions** 185 x 100 mm (7.3" x 3.9")
- **Power Consumption** 600 mA @ 5 V

Communications

- **Communication Controller** 16PCI954+16C954
- **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, Odd, Even
- **Ports** 8
- **Speed** 50 bps ~ 921.6 kbps (Supports any baud rate)
- **Stop Bits** 1, 1.5, 2

Protection

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

Software

- **Bundled Software** ICOM Tools
- **OS Support** Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux

Environment

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

Ordering Information

- **PCI-1622CU** 8-port RS-422/485 Uni PCI Comm, Iso/EFT
- **OPT8I** 1 m DB78 to 8 DB25 cable
- **OPT8J** 1 m DB78 to 8 DB9 cable

Note: Cable not included

For most applications the PCI-1622 requires an OPT8I or OPT8J cable.