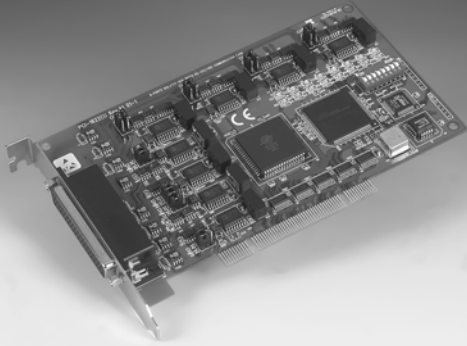


# PCI-1622CU

## 8-port Intelligent RS-422/485 Universal PCI Communication Card, w/Isolation & Surge Protection

NEW



FCC CE

### Features

- PCI Specification 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® 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<sub>DC</sub> Surge Protection
- 2,500 V<sub>DC</sub> 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, surge 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.

PCI-1622CU has a universal PCI connector that is compatible with both newer 3.3 V signaling systems and the traditional 5 V signaling system. This gives high-compatibility and allows usage in diverse systems.

To further increase reliability, the PCI-1622CU offers surge protection from high voltages up to 2,500 V<sub>DC</sub> and 2,500 V<sub>DC</sub> isolation to protect your PC and equipment against damages from ground loops in harsh 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** RTS+,RTS-,CTS+,CTS-,TX+,TX-,RX+,RX-,GND (for RS-422)  
Data+,Data-, GND (for RS-485)
- **FIFO** 128 bytes
- **Flow Control** RTS/CTS, Xon/Xoff
- **IRQ** Assigned by Plug & Play
- **Parity** None, even, odd
- **Ports** 8
- **Speed** 50 bps ~ 921.6 kbps
- **Stop Bits** 1, 1.5, 2

#### Protection

- **ESD Protection** 16 kV
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Surge Protection** 2,500 V<sub>DC</sub>

#### Software

- **Bundled Software** ICOM Tools
- **Driver Support** Windows 98/ME/2000/XP/XP Embedded, Linux

#### Environment

- **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 Universal PCI COMM card w/isolation and surge protection (cables not included)
- **OPT8I** 1 m DB78 to 8 DB25 cable
- **OPT8J** 1 m DB78 to 8 DB9 cable

Note: PCI-1622 will for most applications need the OPT8I or OPT8J cable.