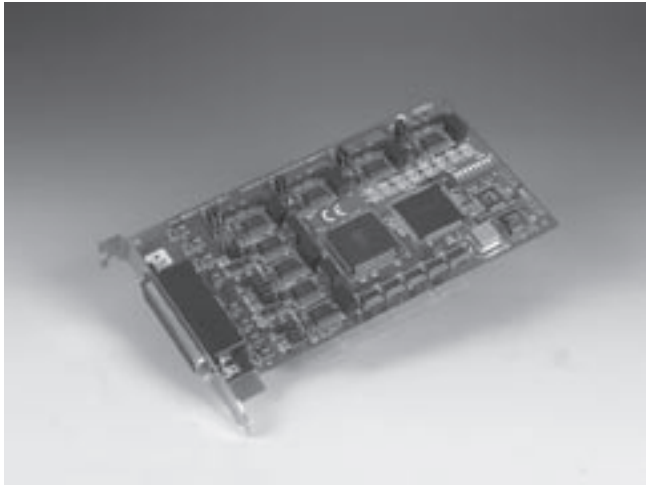# PCI-1622CU

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

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$_{DC}$ EFT Surge Protection
- 2,500 V$_{DC}$ Isolation Protection

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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 EFT surge protection from high voltages up to 2,500 V$_{DC}$ and 2,500 V$_{DC}$ 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$_{DC}$
EFT Surge Protection	2,500 V$_{DC}$

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 EFT Surge Protection (cables not included)
OPT8I	1 m DB78 to 8 DB25 cable
OPT8J	1 m DB78 to 8 DB9 cable

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