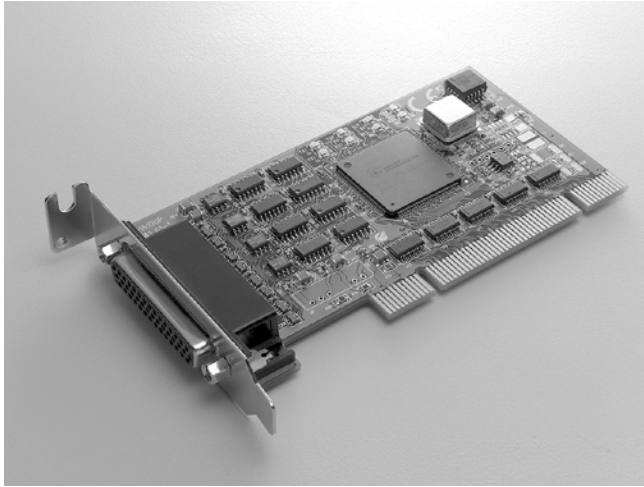# PCI-1610UP

4-Port RS-232 Low-Profile Universal PCI Communication Card, w/Surge Protection

Features

- PCI bus specification 2.2 compliant
- Speeds up to 921.6 kbps
- Four independent RS-232 serial ports
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows® 98/ME/2000/XP, Linux®
- 2500 V_{DC} Surge protection
- Interrupt status register for increased performance
- Powerful and easy-to-use utility (ICOM Tools)
- Universal PCI
- Low Profile PCI

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Introduction

The PCI-1610UP is a 4-port RS-232 PCI communication card, that is compatible with the PCI 2.2 bus specification for universal connectivity and low profile PCI cards. PCI-1610UP provides four independent RS-232 ports. To improve the performance of the system, the PCI-1610UP provides transmission rates up to 921.6 kbps. To increase reliability, The PCI-1610UP offers surge protection technology, protecting your system from abrupt high voltage up to 2500 V_{DC}. The PCI-1610UP also comes with high-performance 16PCI954 UARTs with 128-byte FIFO to reduce CPU load. These components allow more stability and reliability. Therefore, PCI-1610UP is especially suitable for multitasking environments.

PCI-1610UP follows the Low Profile PCI MD1 standard. It has the same protocol and electronic definition as standard PCI, but the Low profile PCI card is smaller. Thus, PCI-1610UP is suitable for embedded systems, or any size-constrained environment. Moreover, PCI-1610UP has an universal PCI connector, which allows support in traditional systems with 5 V signaling or newer systems with 3.3 V signaling.

Advantech also provides a convenient utility program called ICOM Tools, to help you test the PCI card's performance by analyzing the port status. The menu commands and toolbar buttons are easy to use. ICOM Tools acts as a PC-based data scope that lets you set a trigger condition, capture the communication data and monitor the signal status. ICOM Tools can be used with all series of Advantech ICOM cards.

Specifications

- **Bus Interface**   PCI bus spec. 2.2 compliant
- **All ports use the same IRQ assigned by PCI Plug & Play**
- **Data Bits**   5, 6, 7, 8
- **Stop Bits**   1, 1.5, 2
- **Parity**   None, even, odd
- **Communication Controller**   16PCI954
- **Speed**   50 bps ~ 921.6 kbps
- **Data Signals**   TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI
- **Surge Protection**   2500 V_{DC}
- **ESD Protection**   16 kV
- **Power Consumption**   5 V @ 400 mA (Max.)
- **Dimensions**   Low profile PCI MD1 (119.91 x 64.41 mm (4.7" x 2.5"))
- **Operating Temperature**   0 ~ 65° C (refer to IEC 68-2-1,2) (32 ~ 149° F)
- **Operating Humidity**   5 ~ 95% Relative Humidity, non-condensing (refer to IEC 68-2-3)
- **Storage Temperature**   -25 ~ 85° C (-13 ~ 185°F)

Ordering Information

- **PCI-1610UP**   4-Port RS-232 Low-Profile Universal PCI COMM Card, w/surge protection