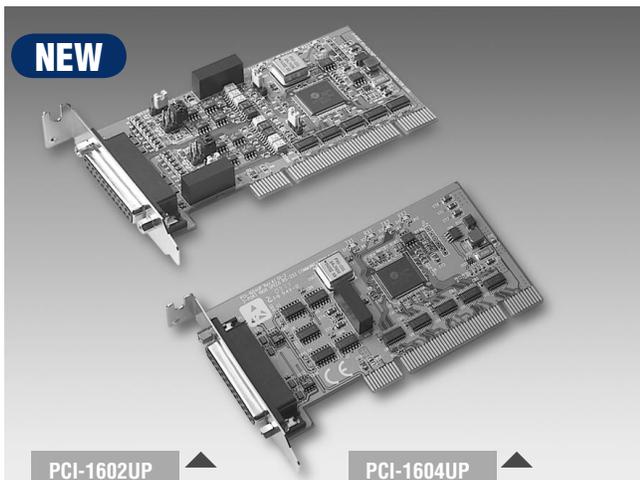


PCI-1602UP PCI-1604UP

2-port RS-422/485 Low-Profile PCI Communication Card

2-port RS-232 Low-Profile PCI Communication Card



Features

- PCI bus specification 2.2 compliant
- Speeds up to 921.6 Kbps
- 2-port RS-232(PCI-1604UP); 2-port RS-422/485 (PCI-1602UP)
- I/O address automatically assigned by PCI plug-and-play
- OS support: Windows® 95/98/NT/2000/XP
- Surge protection (PCI-1602UP/1604UP)
- Isolation protection for RS-422/485 (PCI1602UP)
- 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
- Low-profile PCI



Introduction

The PCI-1602UP/1604UP is a 2 port RS-232/422/485 PCI communication card that is compatible with the PCI 2.2 bus specification for universal connectivity and low profile PCI cards. PCI-1602UP/1604UP provides two independent RS-232 ports (PCI-1604UP) and two RS-422/485 ports (PCI-1602UP). To improve system performance, the PCI-1602UP/1604UP allows transmission rates up to 921.6 kbps. To increase reliability, the PCI-1602UP/1604UP offers surge protection, protecting your system from abrupt high voltage up to 2,500 V_{DC}. High-performance 16PC1952 UARTs with 128-byte FIFO, reduces the CPU load. PCI-1602UP/1604UP is especially suitable for multitasking environments.

PCI-1602UP/1604UP 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-1602UP/1604UP are suitable for embedded systems, and size-constrained environments. Moreover, PCI-1602UP/1604UP has an universal PCI connector, which allows support for 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-and-play**
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even, odd
- **Communication Controller** 16PC1952 (PCI-1602UP)
16PC1952 (PCI-1604UP)
- **Speed (bps)** 50 ~ 921.6 K
- **Data Signals** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI (for RS-232)
Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND (for RS-422)
Data+, Data-, GND (for RS-485)
- **Surge Protection** 2,500 V_{DC}
- **Isolation Protection** 2,500 V_{DC} (PCI-1602UP)
- **Power Consumption** 5 V @ 300 mA (MAX)
- **Power Requirement** 5 V
- **Dimensions** Low profile PCI MD1 (119.91 mm x 64.41 mm)
- **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-1602UP** 2-port RS-422/485 Low-Profile Universal PCI COMM Card, w/isolation and surge protection
- **PCI-1604UP** 2-port RS-232 Low-Profile Universal PCI COMM Card, w/surge protection