PCI-1620A
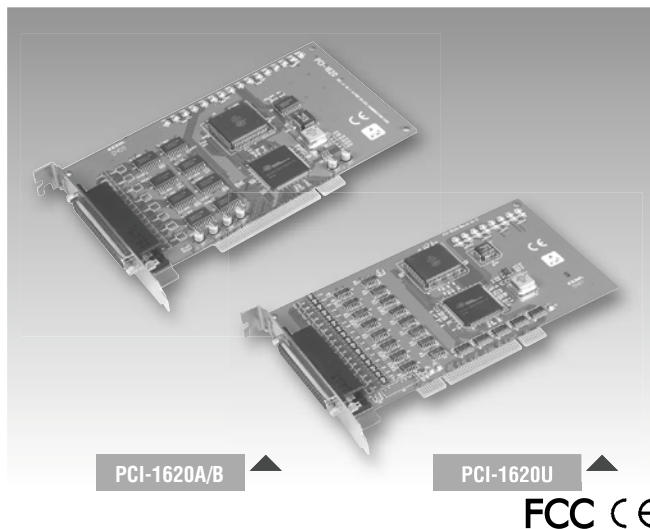# PCI-1620B
PCI-1620U

8-port RS-232 PCI Communication Card

8-port RS-232 PCI Communication Card, with Surge Protection

8-port RS-232 Universal PCI Communication Card, with Surge Protection

PCI-1620A/B   PCI-1620U

FCC CE

Features

- PCI bus specification 2.1, 2.2 (1620U only) compliant
- Speeds up to 921.6 kbps
- 8-port RS-232
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows® 98/ME/2000/XP, Linux®
- Interrupt status register for increased performance
- Space reserved for termination resistors
- Powerful and easy-to use utility (ICOM Tools)
- Universal PCI (PCI-1620U)

Introduction

PCI-1620 is an 8-port RS-232 PCI communication card that is compatible with the PCI 2.1 bus specification. The card provides eight optional surge protected RS-232 ports, and has many functions such as high transmission speed of 921.6 kbps, eight independent RS-232 ports and also comes with high-performance 16PCI954 UARTs with 128-byte FIFO and a 16C954 UART to reduce CPU load. Thus, the PCI-1620 is especially suitable for making your system reliable in multitasking environments.

PCI-1620U has an universal PCI connector that is compatible with both 3.3 V signaling and 5 V signaling. This means that PCI-1610U can not only be used in traditional systems with 5 V signaling but also newer systems with 3.3 V signaling.

To further increase reliability, PCI-1620B and PCI-1620U offer surge protection technology, protecting your system from abrupt high voltages of up to 3,000 V_{DC}. Advantech also provides a convenient utility program called ICOM Tools, to help you test the PCI card's performance by analyzing the port status. ICOM Tools is easy to use with its menu commands and toolbar buttons, and acts as a PC-based data scope that lets you set a trigger condition, capture the communications data and monitor the signal status. ICOM Tools is applicable to all series of Advantech ICOM cards.

Specifications

- **Bus Interface** PCI bus spec. 2.1, 2.2 (1620U only) 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+16C954
- **Speed** 50 bps ~ 921.6 kbps
- **Data Signals** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND (for RS-232)
- **Surge Protection** 3000 V_{DC} (PCI-1620B)
  2500 V_{DC} (PCI-1620U)
- **ESD Protection** 16 kV
- **Power Consumption**
  Typical +12 V: 120 mA   +5 V: 180 mA
  Max +12 V: 150 mA   +5 V: 220 mA
- **Power Requirement** ±12 V
- **Dimensions** 185 x 100 mm (7.3" x 3.9")
- **Operating Temperature** 0 ~ 65° C (refer to IEC 68-2-1,2) (32 ~ 149° F)
- **Operation Humidity** 5 ~ 95 % Relative Humidity, non-condensing (refer to IEC 68-2-3)
- **Storage Temperature** -25 ~85° C (-13 ~ 185° F)

Ordering Information

- **PCI-1620A** 8-port RS-232 PCI COMM Card
- **PCI-1620B** 8-port RS-232 PCI COMM Card, w/surge protection
- **PCI-1620U** 8-port RS-232 universal PCI COMM card w/surge protection
- **Opt8C** 8-port RS-232 cable with male DB62 to DB25 connector (1m)
- **Opt8H** 8-port RS-232 cable with male DB62 to DB9 connector (1m)

All product specifications are subject to change without notice

Last updated : January 2005