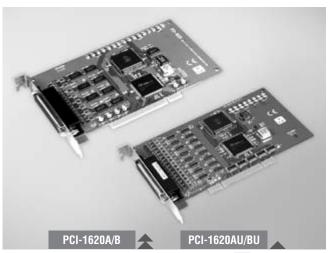
PCI-1620 Series

8-port RS-232 PCI **Communication Cards**



Features

- PCI bus 2.1, 2.2 (PCI-1620AU, PCI-1620BU) compliant
- Speeds up to 921.6 kbps
- 8-port RS-232
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux
- Interrupt status register for increased performance
- Supports any baud rate with high precision
- Universal PCI (Supports 3.3 V or 5 V PCI bus signal) (PCI-1620AU, PCI-1620BU)



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 EFT 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-1620AU and PCI-1620BU have an universal PCI connector that is compatible with both 3.3 V signaling and 5 V signaling. This means that PCI-1610AU and PCI-1620BU 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-1620BU offer EFT protection technology, protecting your system from abrupt high voltages of up to 3,000 Vpc. 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

General

Bus Type PCI-1620A PCI-1620B: PCI V2 1

PCI-1620AU, PCI-1620BU: Universal PCI V2.2

Certifications CE, FCC class A Connectors 1 x DB62-F

Dimensions 185 x 100 mm (7.3" x 3.9") Power Consumption Typical

+5 V: 180 mA +12 V: 120 mA +12 V: 150 mA +5 V: 220 mA

 Power Requirement ±12 V

Communications

 Communication 16PCI954+16C954 Controller

Data Bits 5, 6, 7, 8

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Data Signals

FIF0 128 bytes

 Flow Control RTS/CTS, Xon/Xoff IR0 Assigned by Plug & Play Parity None, Odd, Even

Speed 50 bps ~ 921.6 kbps (Supports any baud rate)

Stop Bits 1, 1.5, 2

Protection

 ESD Protection 16 kV

 EFT Protection 3,000 V_{DC} (PCI-1620B) 2,500 V_{DC} (PCI-1620BU)

Software

 Bundled Software ICOM Tools

 OS Support Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux

Environment

5 ~ 95 % RH, non-condensing (refer to IEC 68-2-3) Operating Humidity **Operating Temperature** $0 \sim 65^{\circ}$ C (refer to IEC 68-2-1,2) (32 $\sim 149^{\circ}$ F)

■ **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

8-port RS-232 PCI Comm Card PCI-1620A PCI-1620B 8-port RS-232 PCI Comm Card w/ EFT PCI-1620AU 8-port RS-232 Uni PCI Comm Card PCI-1620BU 8-port RS-232 Uni PCI Comm w/EFT OPT8C 8-port RS-232 cable w/ male DB62 to DB25 OPT8H 8-port RS-232 cable w/ male DB62 to DB9

OPT8AP 8-port RS-232 (DCE) connection box w/ female DB25 OPT8BP 8-port RS-232 (DTE) connection box w/ male DB25

Note: Cable not included.

For most applications the PCI-1620 requires different cable.

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