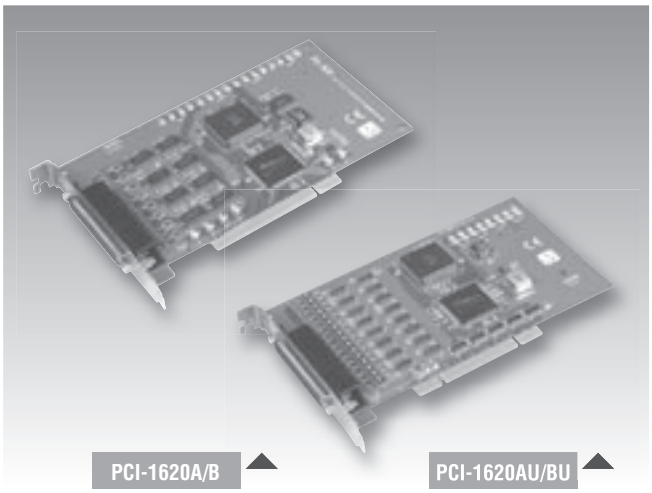
PCI-1620 Series

8-port RS-232 PCI Communication Cards



FCC CE

Features

- PCI bus specification 2.1, 2.2 (PCI-1620U, PCI-1620AU) 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/XP Embedded, Linux
- Interrupt status register for increased performance
- Powerful and easy-to use utility (ICOM Tools)
- Universal PCI (Supports 3.3 V or 5 V PCI bus signal) (PCI-1620AU, 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 EFT 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-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 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

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 Max +12 V: 120 mA +5 V: 180 mA +12 V: 150 mA +5 V: 220 mA
Power Requirement	±12 V

Communications

Communication Controller	16PCI954+16C954
Data Bits	5, 6, 7, 8
Data Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND (RS-232)
FIFO	128 bytes
Flow Control	RTS/CTS, Xon/Xoff
IRQ	Assigned by Plug & Play
Parity	None, even, odd
Speed	50 bps ~ 921.6 kbps
Stop Bits	1, 1.5, 2

Protection

ESD Protection	16 kV
EFT Surge Protection	3,000 V_{DC} (PCI-1620B) 2,500 V_{DC} (PCI-1620U)

Software

Bundled Software	ICOM Tools
Driver Support	Windows 98/ME/2000/XP/XP Embedded, Linux

Environment

Operating Temperature	0 ~ 65° C (refer to IEC 68-2-1,2) (32 ~ 149° F)
Humidity (Operating)	5 ~ 95 % RH, 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 (cables not included)
PCI-1620B	8-port RS-232 PCI COMM Card, w/EFT Surge Protection (cables not included)
PCI-1620AU	8-port RS-232 Universal PCI COMM Card (cables not included)
PCI-1620BU	8-port RS-232 Universal PCI COMM Card w/Surge Protection (cables not included)
Opt8C	8-port RS-232 cable with male DB62 to DB25 connector (1 m)
Opt8H	8-port RS-232 cable with male DB62 to DB9 connector (1 m)
OPT8AP	8-port RS-232(DCE) connection box with female DB25 connectors
OPT8BP	8-port RS-232(DTE) connection box with male DB25 connectors
OPT8FP	8-port RS-422 to RS-232 converter connection box with Isolation Protection