PCI-1620 Series

PCI-1620A/B   PCI-1620AU/BU

RoHS COMPLIANT 2002/95/EC   FCC CE

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 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	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
FIFO	128 bytes
Flow Control	RTS/CTS, Xon/Xoff
IRQ	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

Operating Humidity	5 ~ 95 % RH, non-condensing (refer to IEC 68-2-3)
Operating Temperature	0 ~ 65° C (refer to IEC 68-2-1,2) (32 ~ 149° F)
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/ 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.