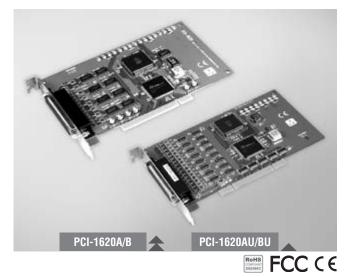
PCI-1620 Series

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 V_{bc}. 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.

Protection

Specifications

General

 Bus Type 		PCI-1620A, PCI-1620B: PCI V2.1 PCI-1620AU, PCI-1620BU: Universal PCI V2.2		 ESD Protection EFT Protection 	16 kV 3.000 V _{DC} (PCI-1620B)
 Certif 	fications	CE, FCC class A			2,500 V _{DC} (PCI-1620BU)
 Conn 	ectors	1 x DB62-F		Software	
 Dime 	Dimensions 185 x 100 mm (7.3" x 3.9")		Software		
Powe	er Consumption	Typical	Max	 Bundled Software 	ICOM Tools
		+12 V: 120 mA	+5 V: 180 mA	 OS Support 	Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux
- Dowo	er Requirement	+12 V: 150 mA ±12 V	+5 V: 220 mA	Environment	
- FUWE	i nequirement	±12 V		 Operating Humidity 	5 ~ 95 % RH, non-condensing (refer to IEC 68-2-3)
Communications					ure 0 ~ 65° C (refer to IEC 68-2-1,2) (32 ~ 149° F)
 Comr Contr 	nunication oller	16PCI954+16C954	ļ	 Storage Temperatur 	e -25 ~ 85° C (-13 ~ 185° F)
 Data 	Bits 5, 6, 7, 8		Ordering Information		
 Data 	Signals	RS-232: TxD, RxD,	RTS, CTS, DTR, DSR, DCD, GND	•	
 FIF0 		128 bytes		PCI-1620A	8-port RS-232 PCI Comm Card
Flow	Control	RTS/CTS, Xon/Xoff	f	PCI-1620B	8-port RS-232 PCI Comm Card w/ EFT
IRQ		Assigned by Plug &	& Play	PCI-1620AU	8-port RS-232 Uni PCI Comm Card
 Parity 	v	None, Odd, Even	2	PCI-1620BU	8-port RS-232 Uni PCI Comm w/EFT
Spee	d	50 bps ~ 921.6 kbp	os (Supports any baud rate)	 OPT8C 	8-port RS-232 cable w/ male DB62 to DB25
 Stop 	Stop Bits	1, 1.5, 2		 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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