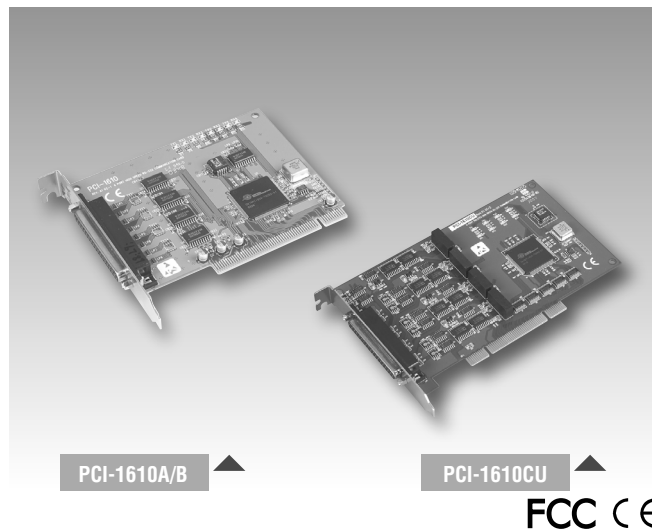


PCI-1610A PCI-1610B PCI-1610CU

4-port RS-232 PCI Communication Card 4-port RS-232 PCI Communication Card, w/Surge Protection 4-port RS-232 Universal PCI Communication Card, w/Isolation & Surge Protection



Features

- PCI bus specification 2.1 (PCI-1610A/1610B), 2.2 (PCI-1610CU) compliant
- Speeds up to 921.6 kbps
- 4-port RS-232
- 16PCI954 UARTs with 128-byte FIFOs standard
- 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-1610CU only)
- 2,500 V_{DC} Surge Protection (PCI-1610B/1610CU)
- 2,500 V_{DC} Isolation Protection (PCI-1610CU only)

Introduction

PCI-1610 is a 4-port RS-232 PCI communication card that is compatible with the PCI 2.1 bus specification. (PCI-1610CU is also compliant with 2.2) and offer transmission speeds up to 921.6 kbps.

PCI-1610 also comes with high-performance 16PCI954 UART with a 128-byte FIFO to reduce CPU load. These components make your system more stable and reliable. Thus, the PCI-1610 is especially suitable for multitasking environments.

PCI-1610CU has a universal PCI connector that is compatible with both the latest 3.3 V signaling systems and the traditional 5V signaling system. This gives high compatibility and allows usage in diverse systems.

To further increase reliability, the PCI-1610B and PCI-1610CU offers surge protection technology, protecting your system from abrupt high voltages up to 2,500 V_{DC}. PCI-1610CU also provides 2,500 V_{DC} isolation to protect your PC and equipment against damages from ground loops in harsh environments.

Advantech also provides a convenient utility program, ICOM Tools, to help test the PCI card performance by analyzing the port status. With menu commands and toolbar buttons, ICOM Tools 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 V 2.1 (PCI-1610A/1610B) Universal PCI V 2.2 (PCI-1610CU)						
• Certifications	CE, FCC class A						
• Connectors	1 x DB37-F						
• Dimensions (L x W)	123 x 92 mm (4.8" x 3.6") (for 1610A and PCI-1610B) 185 x 100 mm (7.3" x 3.9") (for PCI-1610CU)						
• Power Consumption	<table border="0"> <tr> <td>Typical</td> <td>Max</td> </tr> <tr> <td>+12 V: 60 mA</td> <td>+12 V: 80 mA</td> </tr> <tr> <td>+5 V: 150 mA</td> <td>+5 V: 180 mA</td> </tr> </table>	Typical	Max	+12 V: 60 mA	+12 V: 80 mA	+5 V: 150 mA	+5 V: 180 mA
Typical	Max						
+12 V: 60 mA	+12 V: 80 mA						
+5 V: 150 mA	+5 V: 180 mA						

Communications

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

Protection

• ESD Protection	16 kV
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• Isolation Protection	2,500 V _{DC} (PCI-1610CU only)
• Surge Protection	2,500 V _{DC} (PCI-1610B/1610CU only)

Software

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

Environment

• Humidity (Operating)	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-1610A	4-port RS-232 PCI COMM Card (30 cm DB37 to 4 DB25 cable included)
• PCI-1610A/9	4-port RS-232 PCI COMM Card (30 cm DB37 to 4 DB9 cable included)
• PCI-1610B	4-port RS-232 PCI COMM Card w/Surge Protection (30 cm DB37 to 4 DB25 cable included)
• PCI-1610B/9	4-port RS-232 PCI COMM Card w/Surge Protection (30cm DB37 to 4 DB9 cable included)
• PCI-1610CU	4-port RS-232 Universal PCI COMM Card w/Isolation & Surge Protection (30 cm DB37 to 4 DB25 cable included)
• PCI-1610CU/9	4-port RS-232 Universal PCI COMM Card w/Isolation & Surge Protection (30 cm DB37 to 4 DB9 cable included)