PCI-1610 Series

4-port RS-232 PCI Communication Cards

PCI-1610A/B   PCI-1610CU

RoHS COMPLIANT 2002/95/EC   FCC   CE
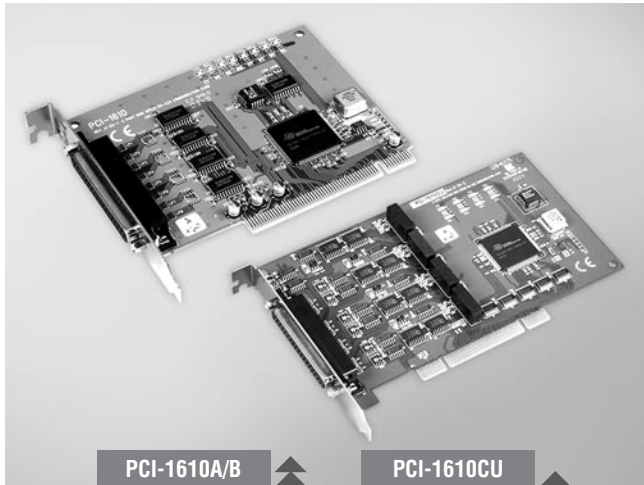
Features

- PCI bus 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/Vista, Windows CE 5.0/6.0, 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} EFT 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 an 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 EFT 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.

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**

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**   RS-232: 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
- **Isolation Protection**   2,500 V_{DC} (PCI-1610CU only)
- **EFT Protection**   2,500 V_{DC} (PCI-1610B/1610CU only)

Software

- **Bundled Software**   ICOM Tools
- **OS Support**   Windows 98/ME/2000/XP/XP Embedded, Windows CE 5.0/6.0, 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 (4 DB25)
- **PCI-1610A/9**   4-port RS-232 PCI (4 DB9)
- **PCI-1610B**   4-port RS-232 PCI Comm Card w/EFT, 4 x DB25
- **PCI-1610B/9**   4-port RS-232 PCI Comm Card w/EFT, 4 x DB9
- **PCI-1610CU**   4-port RS-232 Uni PCI Comm Card, Iso/EFT, 4 x DB25
- **PCI-1610CU/9**   4-port RS-232 Uni PCI Comm Card, Iso/EFT, 4 x DB9

Note: 30 cm DB37 to 4 x DB25 or 4 x DB9 cable included

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