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PCI-1612A-CE

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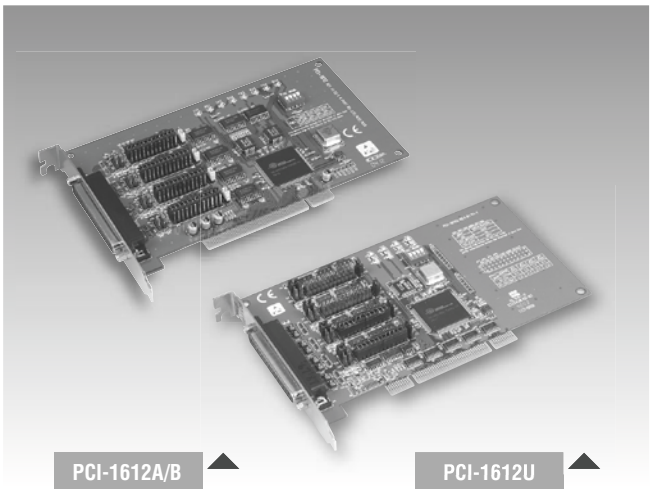
PCI-1612

4-port RS-232/422/485 PCI Communication Card



FCC CE

Features

- PCI bus specification 2.1(PCI-1612A/1612B), 2.2 (PCI-1612U/1612CU) compliant
- Speeds up to 921.6 kbps
- 4-port RS-232/422/485
- 16PCI954 UARTs with 128-byte FIFOs standard
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows® 98/ME/2000/XP, Linux®
- Interrupt status register for increased performance
- Space reserved for termination resistors
- Automatic RS-485 data flow control
- Powerful and easy to use utility (ICOM Tools)
- Universal PCI (PCI-1612U/1612CU)
- 2,500 V_{DC} Surge Protection (PCI-1612B/1612U/1612CU)
- 2,500 V_{DC} Isolation Protection (PCI-1612CU only)

Introduction

PCI-1612 is a 4-port RS-232/422/485 PCI communication card that is compatible with the PCI 2.1/2.2 bus specification and offer transmission rates up to 921.6 kbps. PCI-1612 comes with high-performance 16PCI954 UARTs with a 128-byte FIFO to reduce CPU load. These components make your system more stable and reliable. Thus, the PCI-1612 is especially suitable for multitasking environments.

PCI-1612B, PCI-1612U and PCI-1612CU provide four optional surge protected RS232/422/485 ports and also offer four independent RS-232/422/485 ports. PCI-1612U and PCI-1612CU have universal PCI connectors that are compatible with both newer 3.3 V signaling systems and the traditional 5 V signaling system. This gives highly-compatibility and allows usage in diverse systems. To further increase reliability, PCI-1612B, PCI-1612U and PCI-1612CU offers surge protection for high voltages up to 2,500 V_{DC}. Meanwhile, PCI-1612CU 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 called ICOM Tools to help test the PCI card performance by analyzing the port status. The menu commands and toolbar buttons of 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

- **Bus Interface** PCI bus specification 2.1 (PCI-1612A/1612B), 2.2 (PCI-1612U/1612CU) compliant
- **IRQ** All ports use the same IRQ assigned by PCI Plug & Play
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even, odd
- **Communication Controller** 16PCI954
- **Speed** 50 bps ~ 921.6 kbps
- **Data Signals** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND (for RS-232)
  TxD, RxD, RTS, CTS (for RS-422/485)
- **Surge Protection** 2,500 V_{DC} (PCI-1612B/1612U/1612CU only)
- **ESD Protection** 16 kV
- **Isolation Protection** 2,500 V_{DC} (PCI-1612CU only)
- **Power Consumption** Typical +12 V: 60 mA
  +5 V: 270 mA
  Max +12 V: 80 mA
  +5 V: 338 mA
- **Power Requirement** ±12 V
- **Dimensions** 185 x 100 mm (7.3" x 3.9")
- **Operating Temperature** 0~ 65° C (refer to IEC 68-2-1, 2), (32 ~ 149° F)
- **Operating Humidity** 5 ~ 95% Relative Humidity, non-condensing (refer to IEC 68-2-3)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **PCI-1612A** 4-port RS-232/422/485 PCI COMM Card (30cm DB37 to 4 DB25 cable included)
- **PCI-1612A/9** 4-port RS-232/422/485 PCI COMM Card (30cm DB37 to 4 DB9 cable included)
- **PCI-1612B** 4-port RS-232/422/485 PCI COMM Card w/Surge Protection (30cm DB37 to 4 DB25 cable included)
- **PCI-1612B/9** 4-port RS-232/422/485 PCI COMM Card w/Surge Protection (30cm DB37 to 4 DB9 cable included)
- **PCI-1612U** 4-port RS-232/422/485 Universal PCI COMM Card w/Surge Protection (30cm DB37 to 4 DB25 cable included)
- **PCI-1612U/9** 4-port RS-232/422/485 Universal PCI COMM Card w/ Surge Protection (30cm DB37 to 4 DB9 cable included)
- **PCI-1612CU** 4-port RS-232/422/485 Universal PCI COMM Card w/Isolation & Surge Protection (30cm DB37 to 4 DB25 cable included)
- **PCI-1612CU/9** 4-port RS-232/422/485 Universal PCI COMM Card w/Isolation & Surge Protection (30cm DB37 to 4 DB9 cable included)

All product specifications are subject to change without notice

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