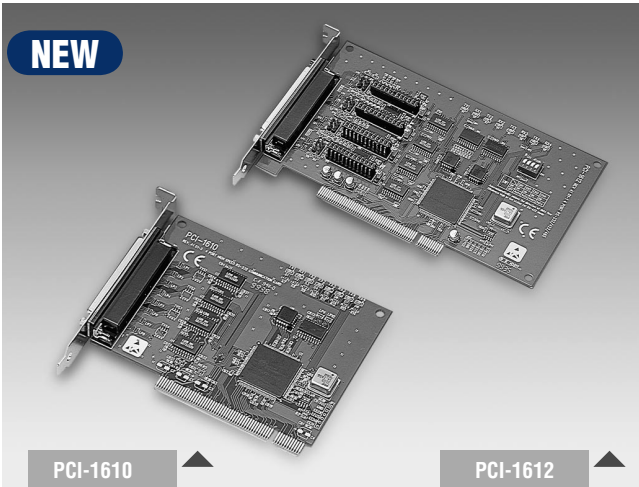


PCI-1610A/B PCI-1612A/B PCI-1612U

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

4-port RS-232/422/485 PCI Communication Card, w/Surge Protection

4-port RS-232/422/485 Universal PCI Communication Card, w/Surge Protection



Features

- PCI bus specification 2.1 compliant
- Speeds up to 921.6 Kbps
- 4-port RS-232(PCI-1610); 4-port RS-232/422/485 (PCI-1612)
- I/O address automatically assigned by PCI plug-and-play
- OS support: Windows® 95/98/NT/2000/XP, Linux
- Optional surge protection
- 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)

Introduction

The PCI-1610/1612 is a 4 port RS-232/422/485 PCI communication card that is compatible with the PCI 2.1 bus specification. The PCI-1610/1612 provides four optional surge protection RS-232 (PCI-1610), RS-232/422/485 ports (PCI-1612) and a number of functions such as: high transmission speed 921.6 Kbps, four independent RS-232/422/485 ports, optional surge protection etc. The PCI-1610/1612 also comes with high-performance 16PC1954 UART with 128-byte FIFO to reduce CPU load. These components makes your system more stable and reliable. Thus, the PCI-1610/1612 is especially suitable for multitasking environments.

PCI-1612U has a universal PCI connector that is compatible with both newer 3.3V signaling systems and the traditional 5V signaling system. This gives highly-compatibility and allow usage in diverse systems.

To improve the performance of the system, the PCI-1610/1612 allows transmission rate up to 921.6 kbps. To further increase reliability, The PCI-1610B/1612B offers surge protection technology, protecting your system from abrupt high voltage up to 3,000 V_{DC}. Besides, Advantech also provides a convenient utility program, ICOM Tools, to help users test the PCI card performance by analyzing the port status. It's easy to use the menu commands and toolbar buttons. ICOM Tools acts as a PC-based data scope that lets you set a trigger condition, captures the communication data and monitors the signal status. ICOM Tools is applicable to all series of Advantech ICOM cards.

Specifications

- **Bus Interface** PCI bus spec. 2.1 compliant
- **All ports use the same IRQ assigned by PCI plug-and-play**
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even, odd
- **Communication Controller** 16PC1954
- **Speed (bps)** 50 ~ 921.6 K
- **Data Signals** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, (for RS-232), RI (PCI-1610), TxD, RxD, RTS, CTS (RS-422/485)
- **Surge Protection** 3000 V_{DC} (PCI-1610B)
2500 V_{DC} (PCI-1612B/PCI-1612U)
- **Power Consumption**

	Typical	Max
PCI-1610	60 mA @ +12 V 150 mA @ +5 V	80 mA @ +12 V 180 mA @ +5 V
PCI-1612	60 mA @ +12 V 270 mA @ +5 V	80 mA @ +12 V 338 mA @ +5 V
- **Power Requirement** ±12 V
- **Dimensions** 185 x 100 mm (for PCI-1612)
123 x 92 mm (for PCI-1610)
- **Operating Temp.** 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-1610A** 4-port RS-232 PCI COMM Card (30 cm DB-37 to 4 DB-25 cable included)
- **PCI-1610A/9** 4-port RS-232 PCI COMM Card (30 cm DB-37 to 4 DB-9 cable included)
- **PCI-1610B** 4-port RS-232 PCI COMM Card, w/surge protection (30 cm DB-37 to 4 DB-25 cable included)
- **PCI-1610B/9** 4-port RS-232 PCI COMM Card, w/surge protection (30 cm DB-37 to 4 DB-9 cable included)
- **PCI-1612A** 4-port RS-232/422/485 PCI COMM Card (30 cm DB-37 to 4 DB-25 cable included)
- **PCI-1612A/9** 4-port RS-232/422/485 PCI COMM Card (30 cm DB-37 to 4 DB-9 cable included)
- **PCI-1612B** 4-port RS-232/422/485 PCI COMM Card, w/surge protection (30 cm DB-37 to 4 DB-25 cable included)
- **PCI-1612B/9** 4-port RS-232/422/485 PCI COMM Card, w/surge protection (30 cm DB-37 to 4 DB-9 cable included)
- **Opt4A** 4-port RS-232/422/485 cable with male DB-37 to DB-9 connector (30 cm)
- **PCI-1612U** 4-port RS-232/422/485 Universal PCI COMM card w/surge protection (30 cm DB-37 to 4 DB-25 cable inside)
- **PCI-1612U/9** 4-port RS-232/422/485 Universal PCI COMM card, w/surge protection (30 cm DB-37 to 4 DB-9 cable included)