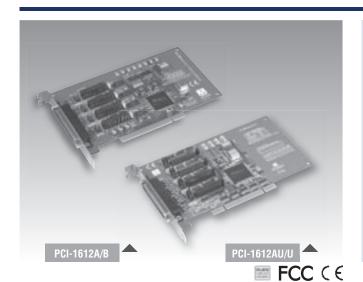
# PCI-1612 Series

### 4-port RS-232/422/485 PCI **Communication Cards**



#### **Features**

- PCI bus specification 2.1(PCI-1612A/1612B), 2.2 (PCI-1612AU/1612BU/ 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/XP Embedded, 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 (Supports 3.3 V or 5 V PCI bus signal) (PCI-1612AU, PCI-1612BU, PCI-1612CU)
- 2,500 V<sub>DC</sub> EFT Surge Protection (PCI-1612B/1612BU/1612CU)
- 2,500 V<sub>DC</sub> 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-1612AU, PCI-1612BU 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-1612BU and PCI-1612CU offers EFT surge protection for high voltages up to 2,500 V<sub>DC</sub>. Meanwhile, PCI-1612CU provides 2,500 Vpc 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**

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 Card Interface PCI V 2.1 (PCI-1612A, PCI-1612B)

Universal PCI V2.2 (PCI-1612BU, PCI-1612AU,

CE, FCC class A Certifications 1 x DB37-F Connectors

Dimensions 185 x 100 mm (7.3" x 3.9")

**Power Consumption** Typical

+12 V: 60 mA +12 V: 80 mA +5 V: 270 mA +5 V: 338 mA

**Communications** 

Communication 16PCI954 Controller

Data Bits

TxD, RxD, RTS, CTS, DTR, DSR, DCD,RI,GND(RS-232) Data Signals

Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS- (RS-422)

Data+, Data- (RS-485)

FIF0 128 bytes Flow Control RTS/CTS, Xon/Xoff

IRQ Assigned by Plug & Play

Parity None, even, odd

Speed 50 bps ~ 921.6 kbps

Stop Bits

**Protection**  EFT Surge Protection 2,500 VDC (PCI-1612B/1612BU/1612CU only)

1, 1.5, 2

ESD Protection

 Isolation Protection 2,500 V<sub>DC</sub> (PCI-1612CU 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-1612A

4-port RS-232/422/485 PCI COMM Card (30 cm DB37 to 4 DB25 cable included)

4-port RS-232/422/485 PCI COMM Card PCI-1612A/9

(30 cm DB37 to 4 DB9 cable included)

4-port RS-232/422/485 PCI COMM Card w/EFT Surge PCI-1612B Protection (30 cm DB37 to 4 DB25 cable included)

4-port RS-232/422/485 PCI COMM Card w/EFT Surge PCI-1612B/9 Protection (30 cm DB37 to 4 DB9 cable included)

4-port RS-232/422/485 Universal Comm. Card. PCI-1612AU (30 cm DB37 to 4 DB25 cable included)

 PCI-1612AU/9 4-port RS-232/422/485 Universal Comm. Card

(30 cm DB37 to 4 DB9 cable included)

4-port RS-232/422/485 Universal PCI COMM Card w/EFT PCI-1612BU Surge Protection (30 cm DB37 to 4 DB25 cable included)

4-port RS-232/422/485 Universal PCI COMM Card w/EFT PCI-1612BU/9 Surge Protection (30 cm DB37 to 4 DB9 cable included)

PCI-1612CU 4-port RS-232/422/485 Universal PCI COMM Card w/Isolation & EFT Surge Protection

(30 cm DB37 to 4 DB25 cable included)

4-port RS-232/422/485 Universal PCI COMM Card PCI-1612CU/9

w/Isolation & EFT Surge Protection (30 cm DB37 to 4 DB9

cable included)