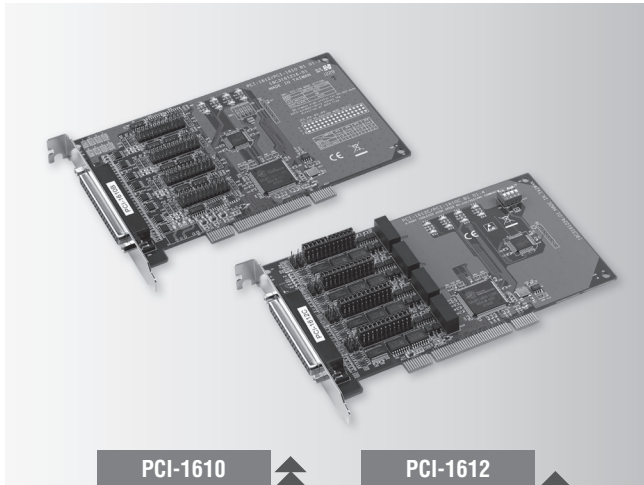


# PCI-1610 PCI-1612

## 4-port RS-232 Universal PCI Communication Card

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



### Features

- PCI bus 2.2 compliant
- Supports serial speed up to 921.6 kbps, and any baud rate setting
- 4-port RS-232 (PCI-1610), 4-port RS-232/422/485 (PCI-1612)
- OXuPCI954 UART with 128-byte FIFO standard
- I/O address automatically assigned by PCI Plug & Play
- OS supported: Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX
- 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
- 1,000 V<sub>DC</sub> surge protection
- 2,500 V<sub>DC</sub> isolation protection (PCI-1610C and PCI-1612C only)

### Introduction

The PCI-1610 is a four port RS-232, and PCI-1612 is a four port RS-232/422/485 PCI communication card that are compatible with the PCI 2.2 bus specification, and offer transmission speeds up to 921.6 kbps. They also support any baud rate setting, for example 500 kbps is acceptable. The PCI-1610 and PCI-1612 also come with high-performance OXuPCI954 UART with 128-byte FIFO to reduce CPU load. These components make your system more stable and reliable. Thus, the PCI-1610 and PCI-1612 are especially suitable for multitasking environments.

Both the PCI-1610 and PCI-1612 have 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 cards can protect your system from abrupt high voltages up to 2,000 voltage thanks to EFT protection technology. PCI-1610C and PCI-1612C also provide 2,500 voltage optical isolation to protect your PC and equipment against damages from ground loops in harsh environments.

### Specifications

#### General

- **Bus Type** Universal PCI v2.2
- **Certification** CE, FCC class A
- **Connectors** 1 x Female DB37
- **Dimensions (L x W)** 185 x 100 mm (7.3" x 3.9")
- **Power Consumption** 180 mA @ +5 V

#### Communications

- **Communication Controller** OXuPCI954
- **Data Bits** 5, 6, 7, 8
- **Data Signals** RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND (PCI-1610, PCI-1612)  
RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS- (PCI-1612)  
RS-485: Data+, Data- (PCI-1612)
- **FIFO** 128 bytes
- **Flow Control** RTS/CTS, Xon/Xoff
- **IRQ** Assigned by Plug & Play
- **Parity** None, Even, Odd, Mark and Space
- **Stop Bits** 1, 1.5, 2
- **Speed** 50 bps ~ 921.6 kbps, any baud rate setting  
230.4 kbps (PCI-1610B/C and PCI-1612B/C only)

#### Protection

- **ESD Protection** 8KV (air), 4KV (contact)
- **EFT Protection** 1 KV

| Model Name | Surge Protection     | Isolation Protection |
|------------|----------------------|----------------------|
| PCI-1610A  | -                    | -                    |
| PCI-1610B  | 1000 V <sub>DC</sub> | -                    |
| PCI-1610C  | 1000 V <sub>DC</sub> | 2500 V <sub>DC</sub> |
| PCI-1612A  | -                    | -                    |
| PCI-1612B  | 1000 V <sub>DC</sub> | -                    |
| PCI-1612C  | 1000 V <sub>DC</sub> | 2500 V <sub>DC</sub> |

#### Software

- **Bundled Software** ICOM Tools
- **OS Support** 32-bit/64-bit Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX

#### Environment

- **Operating Humidity** 5 ~ 95% RH, non-condensing
- **Operating Temperature** -10 ~ 60°C (14 ~ 144°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

#### Regulatory Approvals

- **EMC** EN 55011: 2009 + A1:2010, Group 1, Class A  
EN 55022: 2010, Class A  
EN 61000-6-4: 2007  
EN 55024: 2010  
EN 61000-6-2: 2005  
IEC 61000-4-2: 2008  
IEC 61000-4-3: 2006 +A1: 2007 +A2: 2010  
IEC 61000-4-4: 2010  
IEC 61000-4-6: 2008  
IEC 61000-4-8: 2009  
FCC 47 CFR Part 15 Subpart B (Class B), IC ICES-003

### Ordering Information

- **PCI-1610A** 4-port RS-232 PCI Comm. Card
- **PCI-1610B** 4-port RS-232 PCI Comm. Card w/Surge
- **PCI-1610C** 4-port RS-232 PCI Comm. Card w/Surge+Iso
- **PCI-1612A** 4-port RS-232/422/485 PCI Comm. Card
- **PCI-1612B** 4-port RS-232/422/485 PCI Comm. Card w/Surge
- **PCI-1612C** 4-port RS-232/422/485 PCI Comm. Card w/Surge+Iso

Note: this series includes cable OPT4A.

#### Accessories

- **OPT4A** DB37 x1 to DB9 x4 Cable, 30cm
- **1700018791** DB37 x1 to DB25 x4 Cable, 30cm