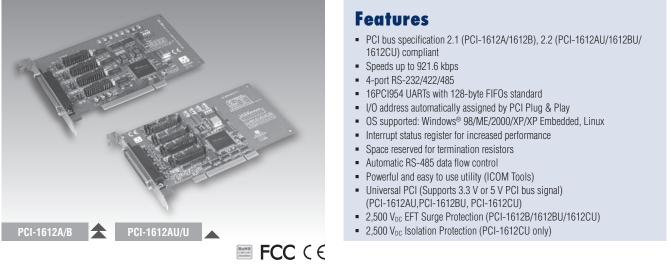
# **PCI-1612** Series

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



## 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 highperformance 16PC1954 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 Vpc. 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**

#### General

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Card Interface	PCI V 2.1 (PCI-1612A, PCI-1612B) Universal PCI V2.2 (PCI-1612BU, PCI-1612AU, 1612CU)		<ul><li>Bundled Softwar</li><li>Driver Support</li></ul>
Certifications	CE, FCC class A		Environment
Connectors	1 x DB37-F		<ul> <li>Humidity (Opera</li> </ul>
Dimensions	185 x 100 mm (7.3" x 3.9")		<ul> <li>Operating Temp</li> </ul>
Power Consumption	Typical +12 V: 60 mA	Max +12 V: 80 mA	<ul> <li>Storage Temper</li> </ul>
	+5 V: 270 mA	+5 V: 338 mA	Ordering
Communications			PCI-1612A
Communication Controller	16PCI954		
Data Bits	5, 6, 7, 8		<ul> <li>PCI-1612A/9</li> </ul>
Data Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-		<ul> <li>PCI-1612B</li> </ul>
	RS-485: Data+, Data-		PCI-1612B/9
FIFO	128 bytes		
Flow Control	RTS/CTS, Xon/Xoff		PCI-1612AU
IRQ	Assigned by Plug & Play		
Parity	None, even, odd		PCI-1612AU/9
Speed	50 bps ~ 921.6 kbps		
Stop Bits	1, 1.5, 2		<ul> <li>PCI-1612BU</li> </ul>
Protection			PCI-1612BU/9
EFT Surge Protection	2,500 V <sub>DC</sub> (PCI-1612B/1612BU/1612CU only)		
ESD Protection	16 kV		PCI-1612CU
Isolation Protection	2,500 V <sub>DC</sub> (PCI-1612CU o	only)	
			- DOL 1010011/0

#### Software

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#### Windows 98/ME/2000/XP/XP Embedded, Linux

5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

0 ~ 65° C (refer to IEC 68-2-1, 2), (32 ~ 149° F)

-25 ~ 85° C (-13 ~ 185° F)

ICOM Tools

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# a Information

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