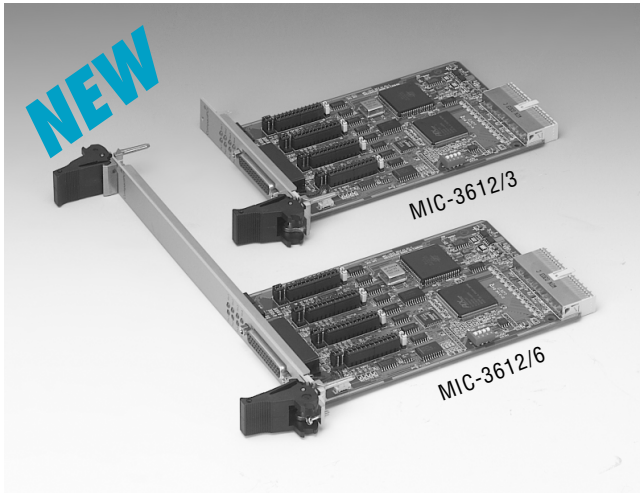


MIC-3612

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



Features

- PCI Specification 2.1 compliant
- Speeds up to 921.6 Kbps
- 4-port RS-232/422/485
- 16C954 UARTs with 128-byte standard
- Standard Industrial CPCI 3U Board size
- I/O address automatically assigned by PCI Plug-and-Play
- OS supported: Windows 98, Windows NT, Windows 2000, Windows XP
- Interrupt status register for increased performance
- Automatic RS-485 data flow control
- Tx/Rx LED indicator

Introduction

The MIC-3612 is a 4 port RS-232/422/485 PCI communication card. It is compatible with PCI 2.1 bus specification. The MIC-3612 provides four surge protection, RS-232/422/485 ports to meet user's needs. It features lots of functions such as high transmission speed 921.6 Kbps; four independent RS-232/422/485 ports; optional surge protection etc. The MIC-3612 also comes with high-performance 16C954 UART with 128-byte FIFO to reduce CPU load. These components make the it more stable and reliable. Thus, the MIC-3612 is especially suitable for multitasking environments.

To improve the performance of the system, the MIC-3612 allows transmission rate up to 921.6 kbps. To further increase reliability, the MIC-3612 offers surge protection technology, protecting your system from abrupt high voltage 2500 V_{DC}. Besides, Advantech also provides a convenient utility program, ICOM Tools, to help users test the CompactPCI 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. In addition, ICOM Tools is applicable to all series of Advantech ICOM cards.

Specification

- **Bus Interface:** CPCI bus specification 2.1 compliant
- **Communication Controller:**
BUS controller: PLX9030
UART: 16C954
- **IRQ:** 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
- **Speed (bps):** 50 ~ 921.6 K

- **Data Signals:**
TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND (for RS-232)
TxD, RxD, RTS, CTS (for RS-422)
DATA+, DATA- (for RS-485)
- **Surge Protection:** 2500 V_{DC}
- **Power Consumption:**

	Typical	Max.
+5 V	220 mA	285 mA
+3.3 V	100 mA	200 mA
+12 V	60 mA	80 mA

- **Dimensions:** 160 mm x 100 mm
- **Operating Temperature:** 0° C ~ 70° C (referring to IEC68-2-1, 2)
- **Operating Humidity:** 5 ~ 95% Relative Humidity, non-condensing (referring to IEC 68-2-1, 2)
- **Operating Humidity:** 5 ~ 95% Relative Humidity, non-condensing (referring to IEC 68-2-3)
- **Storage Temperature:** -20 ~ 80° C

Ordering Information

- **MIC-3612/3**
3U CompactPCI 4-port RS-232/422/485 (30 cm DB-44 to DB-9 cable included)
- **MIC-3612/6**
6U CompactPCI 4-port RS-232/422/485 (30 cm DB-44 to DB-9 cable included)