

RS-232 Universal PCI Multi-Port Communication Board



Quick Installation Guide

Version 1.0

Introduction

RS-232 Golden I/O series, a line of Universal PCI Multi-port Serial Communication Board, is a 32-bit Plug-n-Play PCI Bus card equipped with independent high-speed RS-232.V24 standard serial interfaces. The card attaches 1 / 2 / 4 / 8 independent DB9 or DB25 RS-232 serial ports on your system for industrial communication and automation applications. It is compatible with both 3.3V or 5V and 32-bit or 64-bit PCI Bus, allowing this multi-port serial card to be installed in virtually any available PC system and compatible with all major operating systems. Users do not need to manually set jumpers to configure I/O addresses and IRQ locations. The system will search the device automatically eliminating any conflicts with other cards or devices.

Features

- Fully compatible with PCI Spec. Ver2.2 standard.
- Supports both 64-bit & 32-bit PCI Bus and 3.3V & 5V connector keys.
- 1 / 2 / 4 / 8 independent RS-232 serial ports built-in.
- High speed 16C650 compatible communication controller with SUN1889 single chip hardware flow control to guarantee no data loss and best technical support.
- Each serial port has built-in 64 byte hardware FIFO & 128K byte software FIFO under Windows 2000, XP, and 2003 operation system.
- Data transmission speeds up to 921.6Kbps.
- Certified by Microsoft WHQL, CE, FCC approval.
- Support DOS, Linux, Microsoft WinCE.NET, 3.x, 9x, Me, NT, 2000, XP, and 2003.
- Ready for the Intel® Itanium® and AMD® Athlon 64® 64-bit CPU system on the Microsoft Windows® XP 64-bit Edition Version 2003 and Windows® Server 2003 for 64-bit Itanium-based or Extended Systems.

Package List

Please check if the following items are present and in good condition upon opening your package. Contact your vendor if any item is damaged or missing.

- RS-232 Universal PCI Multi-Port Communication Board
- Serial Cable
 - 4 ports series : DB37 Male to 4 ports DB9 or DB25 Male × 1
 - 8 ports series : DB62 Male to 8 ports DB9 or DB25 Male × 1
- CD Driver
- Quick Installation Guide (this document)
- User Manual

RS-232 Specification

Model	RS-232 Universal PCI Communication Board																														
Mode of Operation	HandShaking RS-232 Full-Duplex																														
Controller	SUN1889 16C650 Compatible UART																														
Bus Interface	64-bit & 32-bit PCI Bus / 3.3V & 5V Connector Key																														
Number of Ports	1 / 2 / 4 / 8 DB9 or DB25 Male ports																														
Bracket	Standard 121 mm, Low Profile 79.2 mm																														
IRQ & IO Address	Assigned by BIOS / O.S.																														
FIFO	32 byte hardware FIFO & 128K byte software FIFO																														
Baud Rate	75 ~ 921,600bps																														
Data Bit	5, 6, 7, 8																														
Stop bit	1, 1.5, 2																														
Parity	Even, Odd, None, Mark, Space																														
Flow Control	None, Xon/Xoff, HardWare																														
Pin Assignment	<p>TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND</p> <table border="1"> <thead> <tr> <th></th> <th>DB9M</th> <th>DB25M</th> </tr> </thead> <tbody> <tr><td>DCD</td><td>1</td><td>8</td></tr> <tr><td>RxD</td><td>2</td><td>3</td></tr> <tr><td>TxD</td><td>3</td><td>2</td></tr> <tr><td>DTR</td><td>4</td><td>20</td></tr> <tr><td>GND</td><td>5</td><td>7</td></tr> <tr><td>DSR</td><td>6</td><td>6</td></tr> <tr><td>RTS</td><td>7</td><td>4</td></tr> <tr><td>CTS</td><td>8</td><td>5</td></tr> <tr><td>RI</td><td>9</td><td>22</td></tr> </tbody> </table>		DB9M	DB25M	DCD	1	8	RxD	2	3	TxD	3	2	DTR	4	20	GND	5	7	DSR	6	6	RTS	7	4	CTS	8	5	RI	9	22
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DCD	1	8																													
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DSR	6	6																													
RTS	7	4																													
CTS	8	5																													
RI	9	22																													
Driver Support	Windows CE.NET / 3.1 / 95 / 98 / Me / 2000 / XP / 2003 Linux 2.2.x, 2.4.x, 2.6.x, DOS																														
Regulatory Approvals	CE, FCC / Microsoft WHQL																														
Operation Temperature	0°C ~ 60°C																														

Driver Installation

In order to ensure proper operation of your RS-232 PCI serial board, the driver will be in the CD bound with your product. You can specify the location (folder) as below:

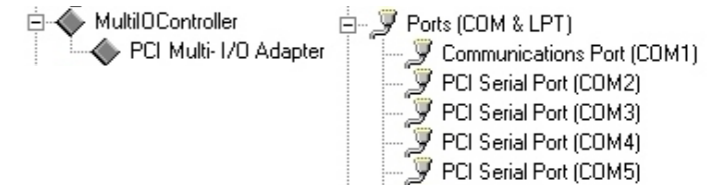
Operation System	Driver Location
Windows 2000 / XP / 2003	:\\IO\PCI IO\Win2K & XP & 2003\Setup.exe
Windows 2000 / XP / 2003	:\\IO\PCI IO\WHQL_Win2K & XP & 2003\
Windows XP / 2003 (64-bit)	:\\IO\PCI IO\WinXP and 2003_64 bit\
Windows 95 / 98 / Me	:\\IO\PCI IO\Win9x\
Windows NT4.0	:\\IO\PCI IO\WinNT\
Windows 3.1 / DOS	:\\IO\PCI IO\DOS\PCIDOS.exe
Windows CE.NET	:\\IO\PCI IO\WinCE\
Linux 2.2.x, 2.4.x, 2.6.x	:\\IO\PCI IO\Linux\
User Manual	:\\IO\PCI IO\Manual\Serial.pdf

※ You can find the detail of the installation steps in the user manual.

Hardware Verity

Please launch the "Device Manager" to verify hardware installation correctly.

Start > Controller Panel > System > Device Manager

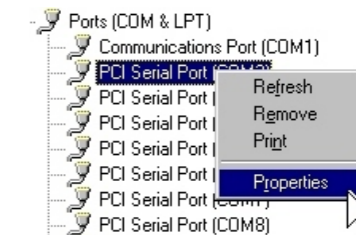


※The number of COM ports will depend on what products you bought.

Port Setting

After installing RS-232 PCI serial board successfully, you can modify the setting for each serial port in device manager.

1. Right click your mouse on the COM port, and select "Properties".



2. Select "Port Setting" page to modify COM port setting.

3. Select "Advanced" icon, you can modify COM port number and FIFO.

