



1002B

2-port RS232 Serial Card

User Manual

I. Overview

HighTek 1002B two serial port expansion card, extends two serial RS232 channels through PCI bus, interface mode set by jumper, which can make your computer conveniently connect with RS232 interface devices such as instruments, meters, access control and other. Product Supports 32/64-bit PCI bus, with PNP (Plug and Play) Plug and Play function, no need to set the interrupt and IO address (automatically assigned by the PCI BIOS); in addition, each port provides 16-byte transmit / receive FIFO buffers, all serial port RS232 have surge protection functions and optical isolation.

II. Product performance

Electrical interface	RS-232
Physical interface	2 DB9
Signal	TXD, RXD, GND
Surge protection	1500V, 600W
Optical isolation	Continuous 2500V, pulse 7KV
Serial speed	50~115200bps

III. DB9 needle-pin definition

Pin	2	3	5
RS-232 Pin Definition	TXD	RXD	GND

IV. Installation steps

Step 1: Turn off the computer

Note: Before installing HighTek 1002B, please turn off the computer's power. Otherwise, it may cause short-circuit or other non-normal conditions which damage your computer as well as HighTek 1002B.

Step 2: Open the computer chassis, insert HighTek 1002B card into the PCI slot you have selected and fix it;

Step 3: Re-open the computer, BIOS will automatically set the interrupt number (IRQ) and IO address for HighTek 1002B card;

Step 4: Install the device driver software;

Step 5: In the menu [System Properties] - [Hardware] - [Device Manager] - [Port], check the virtual port number;

Step 6: Select the corresponding port number in the operating software, set baud rate and other parameters, connected device and it can use.

Note: When RS232 mode, TXD connected RXD, RXD connected TXD, GND connected GND.

V. Common troubleshooting

1. If system cannot detect when installing HighTek 1002B card driver. Please do double check on hardware. For example:
 - (1) Whether the card has been inserted in your computer;
 - (2) Sometimes the PCI slot chosen has problems or faults; please change a PCI slot until finds an available slot.
 - (3) Sometimes your computer motherboard has no available IRQ interrupt number. Please enter your computer's BIOS

2. HighTek 1002B driver has been installed, but cannot receive and transmit data.

Hardware:

- (1) Check the cable connected with device is correct or not;
- (2) It's cable or the computer's motherboard that has problem. Proposed to replace a cable or a computer to verify the problem.
- (3) If your device is RS232 interface, make sure HighTek 1002B serial interface has been set to the same interface with your request.

Software:

- (1) Make sure the serial port parameters your device required is same with that of your application, such as baud rate, data bits, parity, stop bits, etc., and whether need flow control and flow control are consistent or not.
- (2) If your application is written by yourself, make sure its correctness, such as: calling an API function conforms to call rules or not, and so on. In some cases, the program in question works when open some serial port while problem occurs when open other serial, effective authentication method is to use a universal serial test software to open a same serial port. If there is no problem via common test software, please check the programmed software.