

PCI Serial Adapter Card

PCI2S4851050



*actual product may vary from photos

FR: Guide de l'utilisateur - fr.startech.com

DE: Bedienungsanleitung - de.startech.com

ES: Guía del usuario - es.startech.com

NL: Gebruiksaanwijzing - nl.startech.com

PT: Guia do usuário - pt.startech.com

IT: Guida per l'uso - it.startech.com

For the latest information, technical specifications, and support for this product, please visit www.StarTech.com/PCI2S4851050.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

The PCI2S4851050 2 Port PCI RS422/485 Serial Adapter Card with 161050 UART adds two DB9 RS422/RS485 serial ports using a single PCI expansion slot.

The serial card offers a high performance 16C1050 UART and is compliant with PCI 2.3 local bus specifications. An efficient single-chip design and a large 256-byte transit/receive FIFO buffer work together to provide high-speed serial communication while reducing the overall load on the CPU.

With the included standard and low profile brackets, this PCI serial expansion card suits a broad range of system form factors, and is a perfect addition for connecting RS422/485 serial devices to a host computer. For added versatility, the RS422/485 adapter is able to accommodate 3.3 or 5V PCI/PCI-X slots.

Packaging Contents

- 1 x PCI Serial Card
- 2 x Low Profile Installation Bracket
- 1 x Instruction Manual

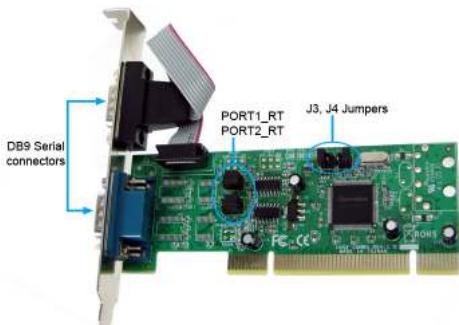
System Requirements

- PCI enabled computer system with available 5V or 3.3V PCI slot
- Computer chassis/case with a single full profile expansion card slot, or dual adjacent low profile expansion card slots
- Any of the following operating systems:
 - Windows® 95, 98SE, ME, XP, Vista, 7, 8, 8.1, 10, 11
 - Windows® Server 2008 R2, 2012, 2012 R2, 2016, 2019, 2022

Installation

WARNING! PCI cards, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your PCI card. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the PCI card by its edges and not the gold connectors.

Jumper Settings

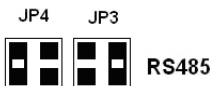


The two sets of jumpers on this card (J4, J3 and PORT1_RT, PORT2_RT) are used to configure the operating mode/serial protocol and 2/4-wire operation respectively.

RS422 Operation



Jumper	Pin	Signal
485 422  (RS422)	1	TxD+
	2	TxD-
	3	RxD+
	4	RxD-
	5	GND



Jumper	Pin	Signal
485 422  2-wire	1	Data+
	2	Data-
	3	x
	4	x
	5	GND

Jumper	Pin	Signal
485 422  4-wire	1	TxD+
	2	TxD-
	3	RxD+
	4	RxD-
	5	GND

Hardware Installation

1. Turn your computer off and any peripherals connected to the computer (i.e. Printers, external hard drives, etc.). Unplug the power cable from the rear of the power supply on the back of the computer and disconnect all peripheral devices.
2. Remove the cover from the computer case. Refer to documentation for your computer system for details.
3. Locate an open PCI or PCI-X slot and remove the metal cover plate on the rear of the computer case.
4. Insert the card into the open PCI or PCI-X slot and fasten the card's bracket to the rear of the case.

NOTE: If installing the card into a small form factor/low profile system, replacing the pre-installed full profile bracket with the included low profile installation bracket may be necessary. This configuration will require two adjacent expansion card slots in the host computer system.

5. Place the cover back onto the computer case.
6. Insert the power cable into the socket on the power supply and reconnect all other connectors removed in Step 1.

Driver Installation

Note: Please be logged in as the local administrator before continuing.

Windows

1. Using a web browser, navigate to www.startech.com/PCI2S4851050.
2. On the Product page, click the Support tab located in the middle of the screen.
3. In the Drivers and Downloads section, click on the driver link:

"[systembase sb16c1052pci] windows serial card 16c1050 uart.zip".

Note: When you download files, Windows usually saves them in the Downloads folder which is located under your user name in the "users" folder on the drive where Windows is installed (for example C:\users\your name\downloads).

4. On the Downloads folder, right click the **[SystemBase SB16C1052PCI] Windows Serial Card 16C1050 UART.zip** file and select **Extract All**.
5. Take note of location that files will be extracted to, and select **Extract**.
6. When complete, extracted files will automatically open.
7. Locate the required **PCI_Setup.exe** file under the **[SystemBase SB16C1052PCI] Windows Serial Card 16C1050 UART (x32 or x64)** folder.
7. Follow the on-screen prompts to complete the installation.

Verifying Installation

1. Open the **Windows Start Menu** and type “**device manager**,” then click the “**Device Manager**” icon that appears in the results. Device Manager will open instantly.
2. Double-click on the “**Ports (COM & LPT)**” option. The appropriate number of additional **COM ports** should be visible. The port(s) are ready to be connected to serial devices.

Specifications

Host Interface	PCI revision 2.3 (3.3V/5V, 33/66MHz)
Form Factor	Full/Low Profile
Chipset ID	SystemBase SB16C1052PCI
External Connectors	2 x 9-pin DB9 male
Supported Protocols	RS485, RS422
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Maximum Data Transfer Rate	128,000 Kbps
Buffer Size	256 Byte Tx/Rx
Operating Temperature	0°C ~ 85°C (32°F ~ 185°F)
Storage Temperature	-40°C ~ 85°C (32°F ~ 185°F)
Dimensions	120.0mm x 45.0mm x 18.0mm
Weight	55.8g
Compatible Operating Systems	Windows 2000/XP/Server 2003/ Vista/Server 2008 R2/7 (32/64-bit)

Technical support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit **www.startech.com/support** and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit **www.startech.com/downloads**

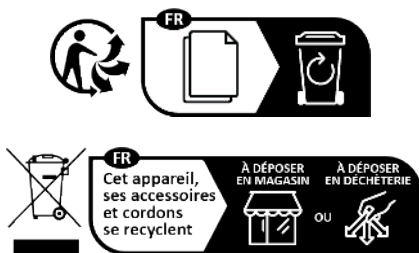
Warranty information

This product is backed by a two-year warranty.

StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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