StarTech 2S232422485-PC-CARD 2 Port Serial PCIe Card User Guide
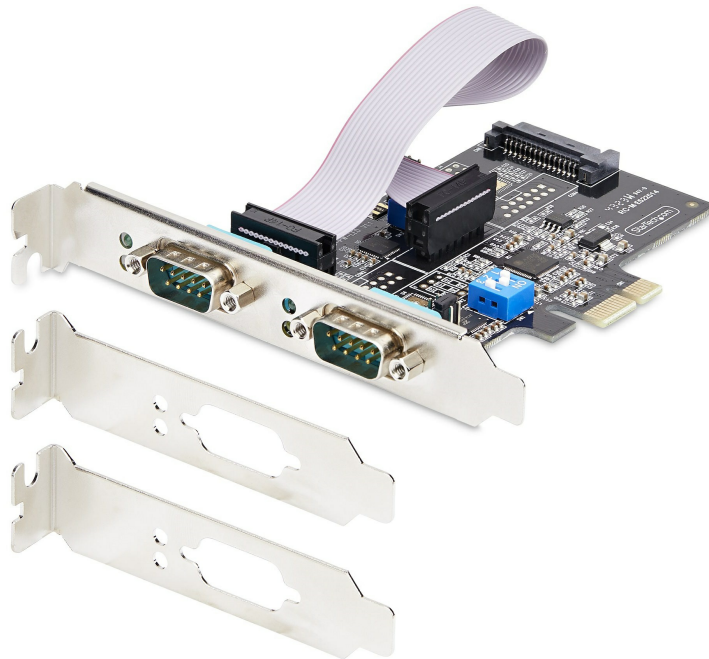
StarTech 2S232422485-PC-CARD 2 Port Serial PCIe Card

Contents

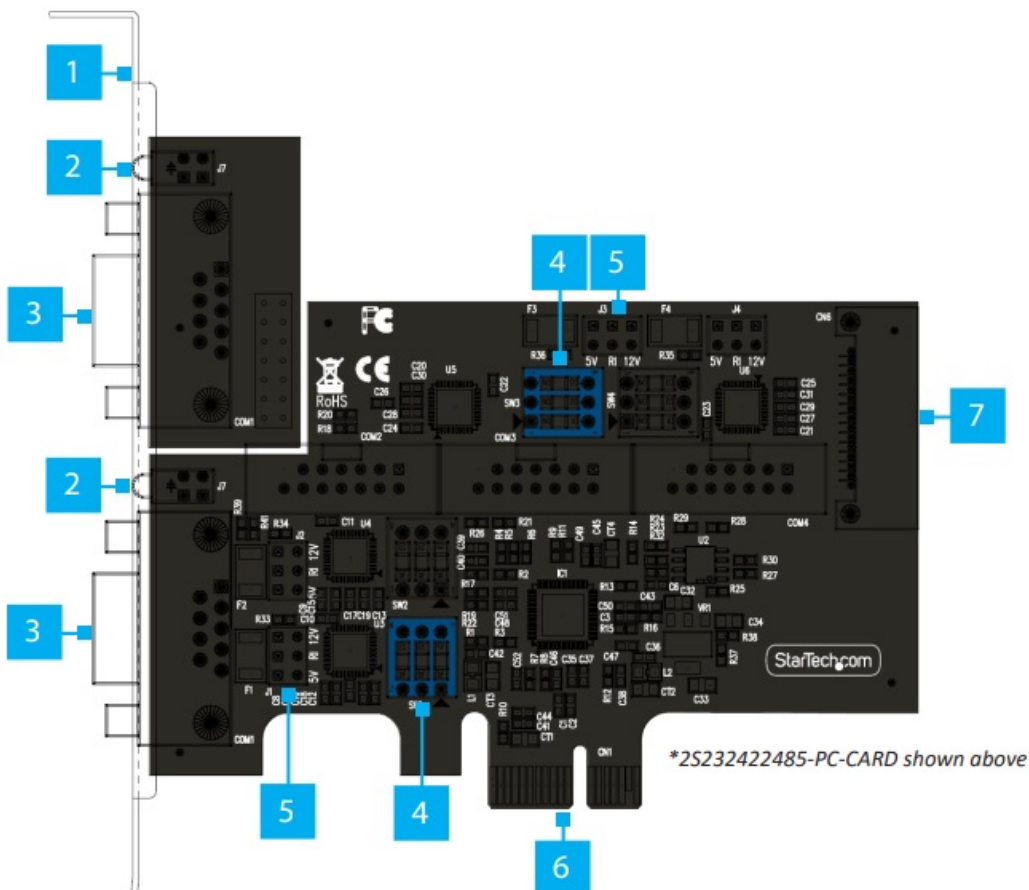**PCIe x1 RS232/422/485 Serial Card – Low-Profile Brackets Included**

Product ID
2S232422485-PC-CARD
PS74ADF-SERIAL-CARD

*2S232422485-PC-CARD shown above

	Port/LED/ Connector	Function
1	Bracket	• Secures the card to the **Host Computer Case** • The **Full Profile Bracket** comes pre-installed • The **Low Profile Bracket** is included
2	Activity LEDs	• **Data Receive LED:** Flash **Green** to show activity • **Data Transmit LED:** Flash **Yellow** to show activity
3	DB9 Serial Ports	• Connect **Serial Peripheral Devices**
4	Serial Mode Switch	• Change the **DB9 Serial Ports** between **RS-232**, **RS-422**, or **RS-485**

	Port/LED/ Connector	Function
5	J1/J2/J3/J4 Jumper	• Optional: Used to change the **Voltage Output** of **DB9 Pin 9** • **RI** disables power on **DB9 Pin 9**. This is the default setting. • **12V** draws power from the **SATA Power Connector (**Outputs **12V)** • **5V** draws power from the **SATA Power Connector (**Outputs **5V)**
6	PCIe x1 Connector	• Insert into a **PCI Express Slot** on the **Host Computer**
7	SATA Power Connector	• Optional: Connect an available **SATA Power Connector** from the **Host Power Supply** to provide power over **DB9 Pin 9**

Package Contents

2S232422485-PC-CARD:

- Serial Card x 1
- Low-Profile Bracket x 2
- Ribbon Cable x 1
- Quick-Start Guide x 1

PS74ADF-SERIAL-CARD:

- Serial Card x 1
- Low-Profile Bracket x 4
- Ribbon Cable x 3
- Quick-Start Guide x 1

Requirements

For the latest requirements, please visit: **www.StarTech.com/2S232422485-PC-CARD**

- Computer with an available PCI Express Slot (x1, x4, x8, or x16)

Installation

DIP Switch Settings

To change the DB9 Serial Ports between RS-232, RS-422, and RS-485, use the respective Serial Mode Switch located on the Serial Card. Dip Switch 3 enables/ disables a 120 Ω Termination Resistor, used for impedance matching between the Tx+/Tx- and Rx+/Rx- (RS-422/RS-485 4-wire) and D+/D- (RS-485 2-wire) lines. The purpose is to prevent reflections on the line that may cause signal errors.
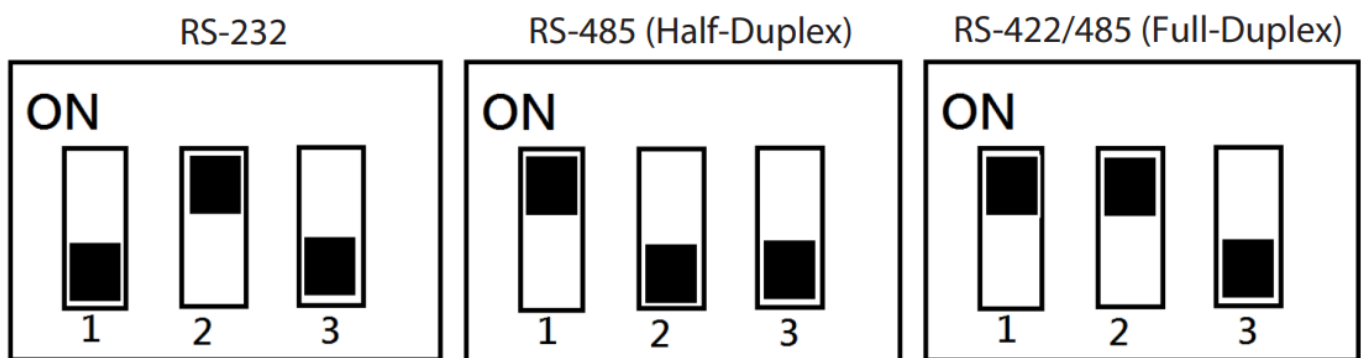
Install the Card

Note: If the PCIe Card is to be installed into a Small Form Factor or Low-Profile Desktop, it's required to replace the pre-installed Full-Profile Bracket with the included Low-Profile Brackets. The DB9 Serial Ports that use Ribbon Cables will need to be installed on the separate Low-Profile Brackets.

1. Turn off the Computer and disconnect the Power Cable and any Peripheral Devices that are connected (e.g. printers, external hard drives, etc.).
2. Remove the Cover from the Computer Case.
   Note: Consult the documentation that came with the computer for details about how to do this safely.
3. Locate an open PCIe Slot and remove the corresponding Metal Cover Plate(s) from the rear of the Computer Case. In most instances, the Metal Cover Plate is attached to the rear of the Computer Case with a single Phillips Head Screw. Save this Phillips Head Screw for the next step.
4. Gently insert the Serial Card into the open PCIe Slot and fasten the Bracket(s) to the rear of the Computer Case, using the Phillips Head Screw from Step 4.
5. (Optional) Connect SATA Power from the Computer Power Supply to the SATA Power Connector, located on the rear of the Serial Card.
6. Replace the Cover from the Computer that was removed in Step 2.
7. Reconnect all of the Peripheral Devices that were disconnected in Step 1.
8. Reconnect the Power Cable to the rear of the Computer.

Install the Driver

Windows

1. Navigate to: **www.StarTech.com/2S232422485-PC-CARD**
2. Click the Drivers/Downloads tab.
3. Under Driver(s), download the Driver Package for Windows Operating System.
4. Open the Driver Package and locate the corresponding folder for the Windows Version.
5. Execute the Setup File to install the driver.

Linux

1. Navigate to: **www.StarTech.com/2S232422485-PC-CARD**
2. Click the Drivers/Downloads tab.
3. Under Driver(s), download the Driver Package for the Linux Operating System.
4. Follow the Linux Driver Installation Guide that was extracted.
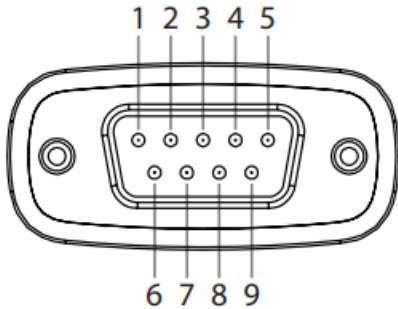
Verify Driver Installation

Windows

1. Navigate to the Device Manager.
2. Under Ports (COM & LPT), right-click AX99100 PCIe to High Speed Serial Port and click Properties.
3. Confirm that the Driver is installed and working as expected.

Verify Driver Installation (Linux)

1. Run lsmod | grep r8125 from the command line.
2. Verify that the Driver is present in the command line.

DB9 Pin Out

Pin	RS-232	RS-422/RS-485 (4 Wire)	RS-485 (2 Wire)
1	DCD	TXD-	-(485)
2	RXD	TXD+	+(485)
3	TXD	RXD+	X
4	DTR	RXD-	X
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		
9	RI/PWR		

Regulatory Compliance

FCC – Part 15

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:

- 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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

   Changes or modifications not expressly approved by **StarTech.com** could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Warranty Information

This product is backed by a two-year warranty.
For further information on product warranty terms and conditions, please refer to **www.startech.com/warranty**.

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45 Artisans Crescent
London, Ontario
N5V 5E9
Canada

StarTech.com LLP
4490 South Hamilton
Road
Groveport, Ohio
43125
U.S.A.

StarTech.com Ltd.
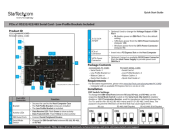Unit B, Pinnacle 15
Gowerton Road
Brackmills,
Northampton
NN4 7BW
United Kingdom

StarTech.com Ltd.
Siriusdreef 17-27
2132 WT Hoofddorp
The Netherlands

Documents / Resources

StarTech 2S232422485-PC-CARD 2 Port Serial PCIe Card [pdf] User Guide
2S232422485-PC-CARD 2 Port Serial PCIe Card, 2S232422485-PC-CARD, 2 Port Serial PCIe
Card, Serial PCIe Card, Card

References

- 🟡 **StarTech.com | IT Pro's Trusted Source for Connectivity Accessories**
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- **User Manual**