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6ft RS422 RS485 USB to Serial Cable Adapter w/ COM Retention

ICUSB422



*actual product may vary from photos

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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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Table of Contents

Introduction 1
- Packaging Contents 1
- System Requirements 1

Installation 1
- Hardware Installation 1
- Driver Installation 1
- Verifying Installation 2

DIP Switch Settings 2

DB9 Pin Assignment 3

Specifications 4

Technical Support 5

Warranty Information 5

Introduction

Packaging Contents

- 1 x USB to Serial Adapter Cable
- 1 x Instruction Manual

System Requirements

- Available USB port
- Microsoft® Windows® 11, Windows 11 ARM, Windows 10, Windows 8, Windows 7, Windows Server 2025, Windows Server 2022, Windows Server 2019, Windows Server 2016, Windows Server 2012, macOS Tahoe (26.0), macOS Sequoia (15.0), macOS Sonoma (14.0), macOS Ventura (13.0), macOS Monterey (12.0), macOS Big Sur (11.0), macOS Catalina (10.15), macOS Mojave (10.14), macOS High Sierra (10.13), macOS Sierra (10.12), Linux

Installation

Hardware Installation

1. Power on the computer and make sure the operating system is fully loaded.
2. Plug the USB connector on the ICUBS422 adapter cable into an available USB port on the host computer.
3. The operating system will automatically detect the new hardware and prompt for drivers.
4. Once drivers are successfully installed, connect the DB9 connector to the serial cable for your RS-422/485 device.

Driver Installation

Windows 7, Windows 8, Windows 10, Windows 11

To install your serial card in Windows, download the latest driver package from StarTech.com, extract the files, run Setup.exe as an administrator, and restart the computer if prompted.
Explanation:
Before installing the serial card, ensure that Windows is fully updated with the latest service packs, security updates, and feature updates available for your operating system.

To install the driver:

1. Download the latest driver package from the StarTech.com Drivers & Downloads page.

2. Extract the contents of the downloaded ZIP file.

3. Open the folder for your version of Windows, if applicable.
4. Right-click Setup.exe and select Run as administrator.
5. Follow the on-screen instructions to install the driver.
6. Restart the computer if prompted.

After Windows restarts, the operating system will complete the driver installation and the serial card will be ready to use.

Note: If Run as administrator is not available, ensure that you are running Setup.exe from the extracted folder rather than directly from within the ZIP file.

Verifying Installation

Windows 2000/Server 2003/XP/Vista/7

From the main desktop, right-click on "My Computer" ("Computer" in Vista), then select Manage. In the new Computer Management window, select Device Manager from the left window panel.

Double-click on the "Ports (COM & LPT)" option. An additional USB serial COM port should be visible. The port is ready to connect to new devices.

DIP Switch Settings

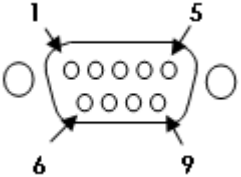
Switch	Switch Name	Switch Position	Description
1	485/422	485 (default)	2-wire RS-485 mode
		422	4-wire RS-422 mode
2	Echo/No Echo	Echo	Transmitting data will be echoed back.
		No Echo (default)	No data echo
3	No Term/Term	No Term (default)	Terminator resistor is disabled
		Term	Terminator resistor is enabled
4	None	On/Off	Switch is not enabled



- **NOTE:** In "422" mode, the ECHO setting is not used.
- The Echo mode is useful for detecting if there is data collision occurring on RS-485. If the echoed data is not equal to the transmitted data, then data collision is occurring.

DB9 Pin Assignment

DB9 Pin	RS-422	RS-485
1	TxD -	Data -
2	TxD +	Data +
3	RxD +	NC
4	RxD -	NC
5	GND	GND
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC



Specifications

Bus Interface	USB 2.0
Connectors	1 x USB type A 1 x 9-pin DB9 male
Maximum Baud Rate	921.6Kbps
Termination Resistor	120 Ohm
Chipset	FTDI FT232RL
Serial Protocol	RS-422 (4-wire) RS-485 (2-wire)
Power Consumption	110mA
Compatible Operating Systems	Windows 98SE/ME/2000/XP/Server 2003/Vista/7, or Linux

Technical Support

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

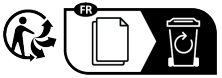
Warranty Information

This product is backed by a two year warranty.

In addition, 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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