

## 2 Port USB to RS232/422/485 Serial Adapter with COM Retention

ICUSB2324852



\*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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# Introduction

The StarTech.com 2-Port USB to RS232/422/485 Serial Adapter provides two serial ports to a USB compatible desktop, laptop or netbook computer system. Capable of RS232/422/485 serial modes, and both a DB9 and 5-wire terminal block connector, this serial adapter is a versatile solution for adding external serial connectivity to a newer computer system that does not have any serial ports.

## Packaging Contents

- 1 x USB to Serial adapter
- 1 x Wall Mounting Bracket
- 1 x USB cable
- 1 x Driver Installation CD
- 1 x Instruction Manual

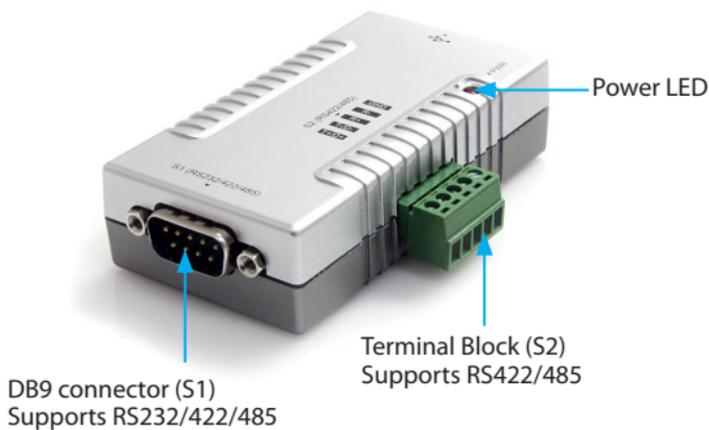
## System Requirements

- USB enabled computer system with available USB port
- Microsoft® Windows® 2000/XP/Server 2003/Vista/Server 2008 R2/7 (32/64-bit), XP Embedded, Windows CE 4.2/5.2/6.0, or Windows Mobile 2003/5/6, or Apple® Mac OS® 9.8/10.x, or Linux® kernel 2.4.x or later

## Side 1 View



## Side 2 View



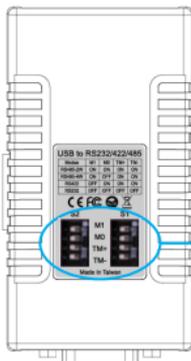
\*actual product may vary from photos

# Installation

1. Connect the USB adapter into an available USB port on the computer. If the USB adapter is unable to draw enough power from the USB port, connecting an external power adapter (not included) may be required.
2. Insert the Driver Installation CD into the computer's CD/DVD drive.
3. Access the CD and go into the "USB\_to\_IO \ FDTI" folder. Enter the folder for the operating system of the computer system.
4. Run the driver installation program (e.g. CDM20600.exe) and follow the prompts. Once the installation program finishes, the drivers for the adapter should be installed. Unplug and reconnect the adapter if not.
5. Set the DIP switches on the bottom of the unit to the appropriate serial mode (see "How to Use").
6. Connect the serial devices to the DB9 serial connector (S1) and/or the 5-wire Terminal Block serial connector (S2).
7. If mounting the USB adapter to a wall or surface, first mount the included wall mount bracket to the surface with four mounting screws (not provided). Make sure to use the appropriate type of mounting hardware for the intended wall/surface.
8. Once the bracket is mounted, the USB adapter can be placed into the bracket and it will simply snap into place. The USB adapter can be removed from the bracket by simply pulling it free.

## Dip Switch Settings

There are 4 DIP switches for each port on the adapter, used to set the operating mode (serial protocol) and terminator settings. The DIP switches are located on the bottom of the unit, and each port can be configured independently of the other.

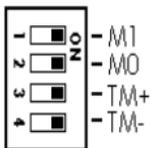


DIP Switches for S1 and S2

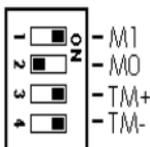
**NOTE:** The port S2 can only operate in RS422/485 modes.

## DIP Switch Setting

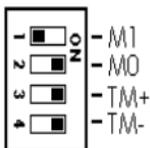
## Description



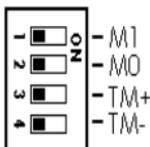
RS485 - 2-wire  
(default)



RS485 - 4-wire



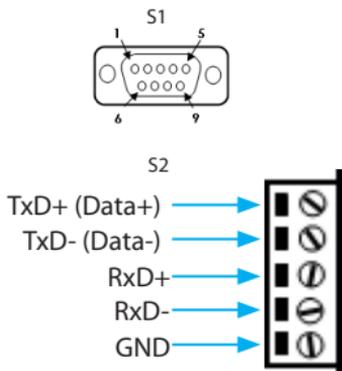
RS422



RS232

NOTE: switch 3 and 4 must be set to OFF for RS232 mode to work correctly.

## Pinout Diagram



### RS232

9 Pins	Signal
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

### RS422(4-wire)/485 (4-wire/2-wire)

9 Pins	Signal
1	TXD- (DATA-)
2	TXD+ (DATA+)
3	RXD+
4	RXD-
5	GND
6	NC
7	NC
8	NC
9	NC

# Specifications

<b>Bus Interface</b>	USB 2.0
<b>Chipset ID</b>	FTDI FT2232H
<b>Connectors</b>	1 x DB9 male 1 x 5-wire Terminal Block 1 x USB type B female
<b>LEDs</b>	1 x Power
<b>Supported Protocols</b>	RS-232/422/485
<b>Maximum Data Transfer Rate</b>	921.6 Kbps
<b>Operating Temperature</b>	0°C ~ 55°C (32°F ~ 131°F)
<b>Storage Temperature</b>	-20°C ~ 85°C (-4°F ~ 185°F)
<b>Humidity</b>	5% ~ 95% RH
<b>Dimensions</b>	82.3mm x 44.2mm x 22.2mm
<b>Weight</b>	300g
<b>Compatible Operating Systems</b>	Windows 2000/XP/Server 2003/Vista/ Server 2008 R2/7 (32/64-bit), XP Embedded, Windows CE 4.2/5.2/6.0, or Windows Mobile 2003/5/6, Mac OS 9.8/10.x, Linux kernel 2.4.x or later

# Technical Support

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For the latest drivers/software, please visit [www.startech.com/downloads](http://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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