



# Industrial USB to 422/ 485 Serial Adapter Quick Installation Guide

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## Introduction

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The *Industrial USB to 422/485 Serial Adapter* provides additional RS-422/485 ports with 3KV isolation to your PC or Mac systems.

## Key Features and Benefits

- Supports serial port data transfer rates up to 230Kb/s
- Built in 15KVDC ESD serial interface protection
- USB bus power
- 3KV optical isolation
- Auto data direction flow control
- Wall mount ready

## System Requirements

- Desktop or notebook computer with an available USB 2.0 port

- Windows® 8 (32-/64-bit) / Windows 7 (32-/64-bit) / Vista (32-/64-bit) / XP (32-/64-bit) / Server 2003 & 2008 (32-/64-bit) / Server 2008 R2

## Package Contents

- *Industrial USB to 422/485 Serial Adapter*
- USB cable (type A/B)
- Power adapter (for ID-SC0A11-S1 only)
- 5-pin terminal block (2pcs for ID-SC0911-S1; 4 pcs for ID-SC0A11-S1)
- 3-pin terminal block (for ID-SC0A11-S1 only)
- Software CD
- Quick installation guide

## Layout

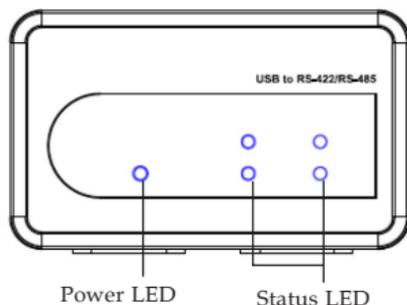
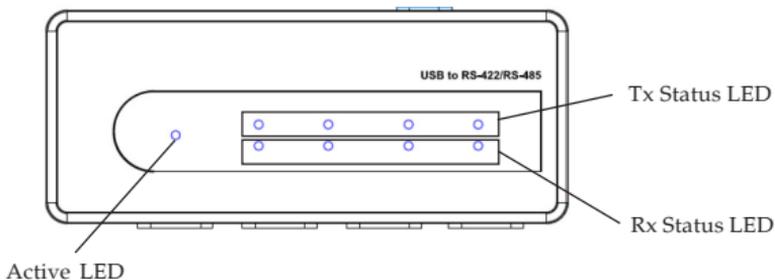


Figure 1: ID-SC0911-S1 Layout



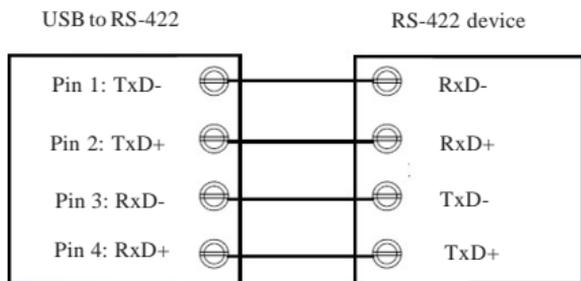
**Figure 2: ID-SC0A11-S1 Layout**

## Pin Assignment

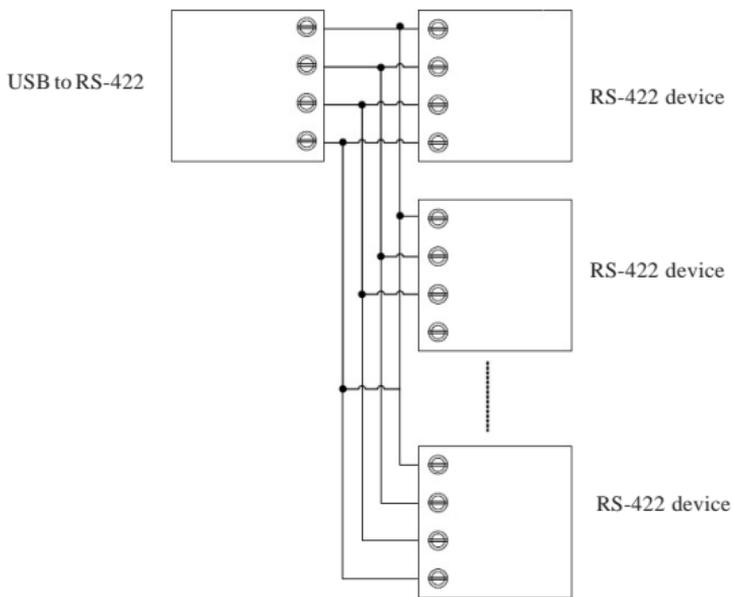
Pin	RS-422 / 4-wire RS-485	2-wire RS-485
1	TxD- (A)	Data-(A)
2	TxD+ (B)	Data+(B)
3	RxD- (A)	
4	RxD+ (B)	
5	Terminal Resistance Pin	Terminal Resistance Pin

**Figure 3: Pin Assignment**

# RS-422 Wire Diagram

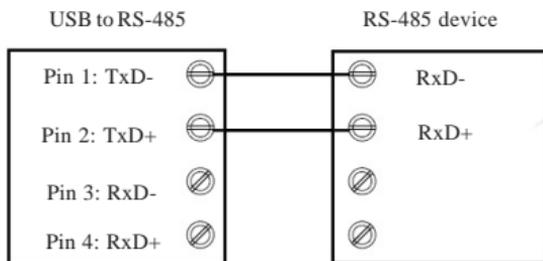


**Figure 4: point-to-point / 4-wire full-duplex communication**

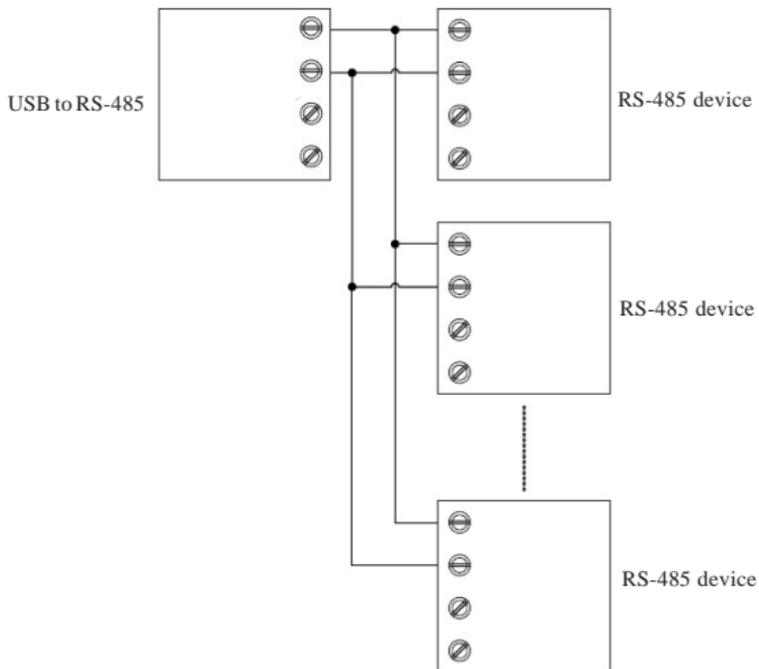


**Figure 5: point-to-multi point / 4-wire full-duplex communication**

# RS-485 Wire Diagram



**Figure 6: point-to-point / 2-wire half-duplex communication**



**Figure 7: point-to-multi point / 2-wire half-duplex communication**

## Windows Installation

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Follow the instructions below to install the *Industrial USB to 422/485 Serial Adapter* drivers.

### **Windows 8 (32-/64-bit) / Windows 7 (32-/64-bit) / Server 2008 R2**

1. Insert the driver CD.
2. At the **AutoPlay** box, click **Open folder to view files**, then double click **Setup** file.  
If the driver window doesn't prompt up, press **Windows** key and R to call out the **Run** window, type **D:\Setup.exe**, and click **OK**. (Change D: to match your CD/DVD-ROM drive letter)
3. At the **User Account Control**, click **Yes**.  
For 2008 R2, skip this step.
4. Repeat step 2 & 3.
5. Plug the adapter into the computer, click **Cancel** at the **Found New Hardware** (if prompted). The driver will be installed automatically.

## **Windows Vista (32-/64-bit)**

1. Insert the driver CD, at the prompted driver window, double click **Setup** file.
2. At the **User Account Control**, click **Allow**.
3. Double click **Setup** file, then click **Allow** again.
4. Plug the adapter into the computer, click **Cancel** at the **Found New Hardware** (if prompted). The driver will be installed automatically.

## **Windows XP (32-bit/64-bit) / Server 2003 & 2008 (32-bit/64-bit)**

1. Insert the driver CD.
2. Click **Start, Run**, type **D:\Setup.exe**, click **OK**. (Change D: to match your CD/DVD-ROM drive letter)
3. Repeat step 2 two times.  
For Server 2008, click **Install this software anyway** if prompted.
4. Plug the adapter into the computer, the adapter is ready for use.

## To Verify Windows Installation

1. Go to Device Manager to verify installation.  
For Windows 8 / Windows 7 / Windows XP / Server 2003 & 2008 R2: Right click **Computer** or **My Computer**, click **Manage**, then click **Device Manager**.  
For Windows Vista: Right click **Computer**, click **Manage**, click **Continue**, then click **Device Manager**.  
For Server 2008: Right click **Computer**, click **Manage**, then double click **Diagnostics**, and click **Device Manager**.
2. Double click **Ports(COM & LPT), USB Serial Port** should be displayed.

## RS-422/485 Mode Setting

Follow the instructions below to set up the output mode for each port.

1. Open the driver CD, then select folder **USB Serial Converter Set**.
2. Double click **USB Serial Converter Set** file.  
Then the following window will prompt up. Click **Scan**.

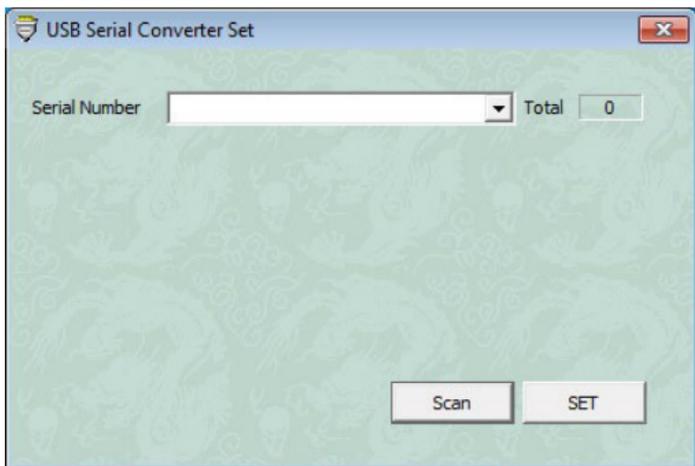


Figure 8

3. Select the desired mode for each port (RS-422 or RS-485 ; 4 wire or 2 wire), and click **SET** to save the settings.

Note: The following image is the screen shot of ID-SC0A11-S1. For ID-SC0911-S1, there are only two ports for setting.

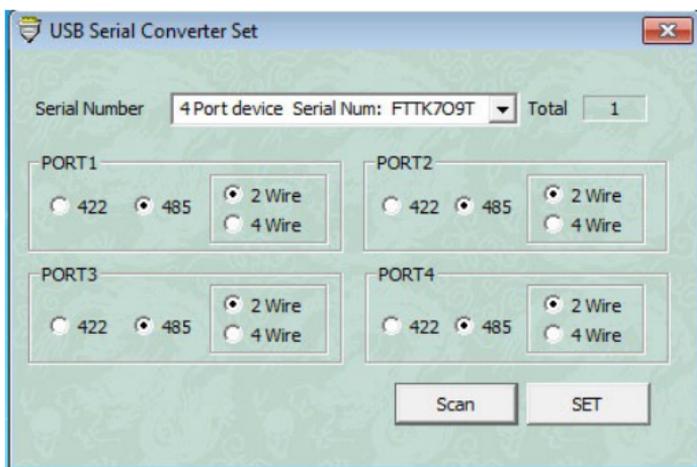


Figure 9

4. At the **Set Successfully** window, click **OK**.

# Technical Support and Warranty

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**QUESTIONS?** SIIG's **Online Support** has answers! Simply visit our web site at [www.siig.com](http://www.siig.com) and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analyst will promptly respond.

SIIG offers a 3-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for three (3) years from the date of purchase of the product.

SIIG will, at our discretion, repair or replace (with an identical product or product having similar features and functionality) the product if defective in materials or workmanship. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Please see our web site for more warranty details.

If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased from.

B) If your purchase has passed the store's return policy period, please follow the steps below to have the product repaired or replaced.

**Step 1:** Submit your RMA request.

Go to [www.siig.com](http://www.siig.com), click **Support**, then **REQUEST A PRODUCT REPLACEMENT** to submit a request to **SIIG RMA** or fax a request to 510-657-5962. Your RMA request will be processed, if the product is determined to be defective, an RMA number will be issued.

**Step 2:** After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All accessories that came with the original package must be included.
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
- You are responsible for the cost of shipping to SIIG. Ship the product to the following address:

**SIIG, Inc.**

**6078 Stewart Avenue**

**Fremont, CA 94538-3152, USA**

**RMA #:** \_\_\_\_\_

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

## About SIIG, Inc.

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Founded in 1985, SIIG, Inc. is a leading manufacturer of IT connectivity solutions (including Serial ATA and Ultra ATA Controllers, FireWire, USB, and legacy I/O adapters) that bridge the connection between Desktop/ Notebook systems and external peripherals. SIIG continues to grow by adding A/V and Digital Signage connectivity solutions to our extensive portfolio. SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, and VARs in the Americas and the UK, and through e-commerce sites.

### **PRODUCT NAME**

Industrial USB to 422/485 Serial Adapter

**FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B  
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE**

### **FCC COMPLIANCE STATEMENT:**

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.

### **THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE**

SIIG, Inc.  
6078 Stewart Avenue  
Fremont, CA 94538-3152, USA  
Phone: 510-657-8688

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