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USB Link Installation Guide



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Important changes are listed in **Document revision history** at the end of this document.

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Using the USB Link

The USB Link (USB-L) enables communication between a computer's USB port and the Local Access port of a controller or an SPT or ZS sensor. The USB Link contains one USB-to-485 converter assembly and one Rnet cable.

To communicate through a Local Access port

CAUTIONS

- Maintain polarity when controllers share power.
- Failure to maintain polarity while using the USB Link on a computer that is grounded through its AC adapter may damage the USB Link and the control module.
- If multiple control modules share power but polarity was not maintained when they were wired, the difference between the control module's ground and the computer's AC power ground could damage the USB Link and the control module. If you are not sure of the wiring polarity, use a USB isolator between the computer and the USB Link. Purchase a USB isolator online from a third-party manufacturer. Plug the isolator into your computer's USB port, and then plug the USB Link cable into the isolator.

PREREQUISITES

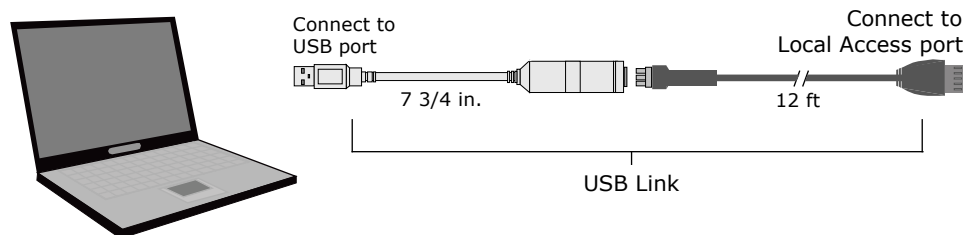
- For the i-Vu® application to communicate with the controller, the controller must have been downloaded with at least its driver (4.x or later).
- Laptop with USB port
- USB Link (Part #USB-L)

Using a USB Link

- 1 If your computer does not already have the USB Link driver installed, install it before you connect the USB Link to your computer.

NOTE The driver is installed with the i-Vu® v5 or later system. But if needed, you can get the latest driver from <http://www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx>.

- 2 Connect the computer to the local access port of the controller, ZS sensor, or an SPT sensor using the USB Link cable(s).

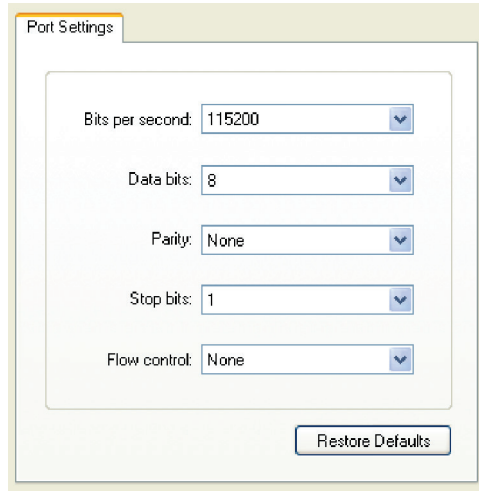


NOTE If using a USB isolator, plug the isolator into your computer's USB port, and then plug the USB Link cable into the isolator.

- 3 Note which COM port has been assigned to the USB Link.

NOTE To find the port number, select **Start > Control Panel > System > Device Manager > Ports (Com & LPT)**. The COM port number is beside **Silicon Labs CP210x USB to UART Bridge**.

- 4 Launch your application.
- 5 Configure the COM Port in Step 2 with the following settings:



The image shows a 'Port Settings' dialog box with the following configuration options:

- Bits per second: 115200
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

A 'Restore Defaults' button is located at the bottom right of the dialog box.

Document revision history

Important changes to this document are listed below. Minor changes such as typographical or formatting errors are not listed.

Date	Topic	Change description	Code*
5/2/17	To communicate through a Local Access port	Updated computer path to Com port.	C-D
	To communicate through a Local Access port	Revised drawing	C-D

* For internal use only



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