

# Virtual COM Port Driver Installation Manual

Installing the virtual COM port driver software on a computer makes possible CAT communication via a USB cable to the SCU-17 or an compatible transceivers. This will allow computer control of TX (PTT, KEY, FSK), and the audio In/Out interface (except the FT-891). The COM port is also used for updating the transceiver firmware.

The SCU-17 or an compatible transceiver have two virtual COM ports, which can be used for CAT communication and TX control operations.

This driver installation program is provided by <u>Silicon Labs, Inc.</u> (The above Silicon Labs, Inc. website link is current as of April, 2016.)

Please read this entire manual carefully. If you agree to the content of this manual, you may download and install the virtual COM port driver.

### **Operating Environment**

Supported Operating Systems

- Microsoft<sup>®</sup> Windows<sup>®</sup> 10
- Microsoft<sup>®</sup> Windows<sup>®</sup> 8.1
- Microsoft<sup>®</sup> Windows<sup>®</sup> 8
- Microsoft<sup>®</sup> Windows<sup>®</sup> 7

\*The previous version of the virtual COM port driver (v6.7) for Windows XP/Vista/7/8/8.1 can be downloaded from the Silicon Labs, Inc. website (<u>http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.</u> <u>aspx</u>).

Port

USB port (USB1.1/USB2.0)

Cable

Use a commercially available A-B USB cable

### Installing the Virtual COM Port Driver

**Caution:** Do not connect the SCU-17 or transceiver to the computer via the USB cable until the virtual COM port driver installation process has been completed. Connecting the SCU-17 or transceiver to the computer via the USB cable before the driver installation has been completed may result in the wrong driver being installed, preventing proper operation.

When you unzip the "CP210x\_VCP\_Windows.zip" file, "CP210xVCPInstaller\_x64.exe" and "CP210xVCPInstaller\_x86.exe" will be generated. Choose the appropriate file depending on the OS version of your computer as follows:

· OS for 64 bit version : "CP210xVCPInstaller\_x64.exe"

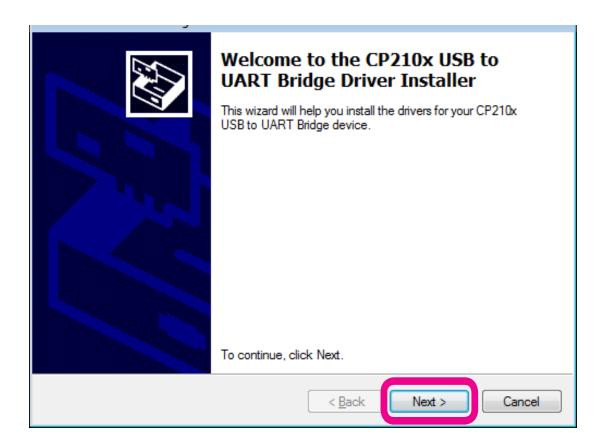
· OS for 32 bit version : "CP210xVCPInstaller\_x86.exe"

The procedure for installing the virtual COM port driver on a Windows<sup>®</sup> 7 (64 bit version) system is shown below.

- 1. Start Windows<sup>®</sup> 7.
- 2. Shut down all running applications.
- 3. Unzip the downloaded (CP210x\_VCP\_Windows.zip) file.
- 4. Run the installation program (CP210xVCPInstaller\_x64.exe) by double-clicking it. The following window will appear. Click the "Yes (Y)" button.
  - \* If the OS version of your computer is 32 bit version, you must choose "CP210xVCPInstaller\_x86.exe"

🛞 User Account Control						
$\widehat{\mathbb{O}}$	Do you want to allow the following program from an unknown publisher to make changes to this computer?					
	Program name: Publisher: File origin:	CP210xVCPInstaller_x64.exe <b>Unknown</b> Hard drive on this computer				
💌 s	how <u>d</u> etails	<u>Y</u> es <u>N</u> o				
		Change when these notifications appear				

5. The following window will be displayed. Click the "Next >" button.



6. The "License Agreement" window will be displayed. Please read the License Agreement, and, if you agree to the terms therein, click the check box next to "I accept this agreement", and click the "Next >" button.

CP210x USB to U	ART Bridge Driver Installer	
License Agr	eement	
Ń	To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.	
	LICENSE AGREEMENT SILICON LABS VCP DRIVER IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS	
	THIS PRODUCT CONTAINS THE SILICON LABS VCP DRIVER AND INSTALLER PROGRAMS AND OTHER THIRD PARTY SOFTWARE.TOGETHER THESE PRODUCTS ARE REFERRED TO AS THE "LICENSED SOFTWARE". USE OF THE LICENSED SOFTWARE IS SUBJECT TO THE TERMS OF THIS LICENSE	Ŧ
(	I accept this agreement     ent	
	< <u>B</u> ack Next >	Cancel

7. The "Completing the Installation of the CP210x USB to UART Bridge Driver" window will be displayed. Click the "Finish" button.

CP210x USB to UART Bridge Dr	iver Installer				
	Completing the Installation of the CP210x USB to UART Bridge Driver				
	The drivers were successfully in	stalled on this computer.			
	Driver Name	Status			
	✓ Silicon Laboratories (sila	Device Updated			
	< <u>B</u> ack	Finish Cancel			

8. This completes the driver installation process.

## Connecting the SCU-17 or Transceiver and the Computer

• Connect the computer and the SCU-17

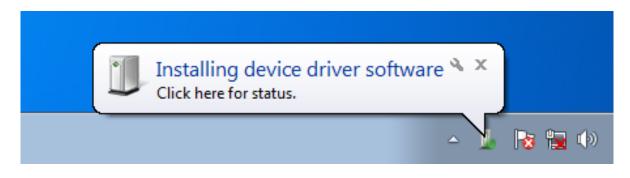
Connect the computer and the SCU-17 via USB cable.

A message such as the one below will be displayed, and the computer will recognize the new hardware and automatically begin device driver installation.

#### Connect the computer and the transceiver

Connect the computer and the transceiver via USB cable, and then turn the transceiver on.

A message such as the one below will be displayed, and the computer will recognize the new hardware and automatically begin device driver installation.



When "Your devices are ready to use" appears, installation has been completed.

A reboot confirmation window may be displayed on some computers. If this window appears, follow the onscreen instructions and reboot the computer.

Once the computer has been rebooted, the virtual COM driver and USB audio driver will be installed.

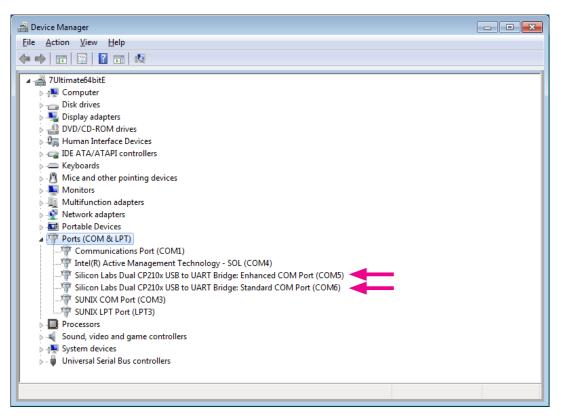
(The standard Windows<sup>®</sup> USB audio driver will be automatically installed, so you do not need to specify which driver to use.)

### How to Confirm the Installation, and the COM Port Number

With the SCU-17 or transceiver and computer connected, confirm whether the virtual COM driver has been installed successfully.

The example below is for  $Windows^{\ensuremath{\mathbb{R}}}$  7.

- 1. Click the Windows<sup>®</sup> "Start" button  $\rightarrow$  Right-click "Computer"  $\rightarrow$  Click "Properties (R)".
- 2. Click "Device Manager" on the window that appears.
- 3. On the Device Manager screen, double-click "Port (COM & LPT)".



 「Silicon Labs Dual CP210x USB to UART Bridge : Enhanced COM Port (COM5)」

 「Silicon Labs Dual CP210x USB to UART Bridge : Standard COM Port (COM6)」

 The number in the "(COM\*\*)" portion may vary from computer to computer.

The SCU-17 or an compatible transceiver contain two virtual COM ports, an Enhanced COM Port and a Standard COM Port. These ports offer the following functions.

- CAT communications and firmware updating ...... Enhanced COM Port
- TX control (PTT, KEY, FSK)..... Standard COM Port

The above window shows that COM5 can be used for CAT communications and firmware updating, and COM6 can be used for TX control (PTT, KEY, FSK).

When performing software port configuration, select the COM port numbers that were confirmed using the procedure above.

#### **Caution:**

- If a "!" or "X" is displayed for the port on the Device Manager, uninstall and reinstall the virtual COM driver.
- If an SCU-17 or transceiver with a different serial number is connected and turned on, different COM port numbers will be assigned to it, making it possible to perform individual COM port configurations for separate transceivers.
- When using the USB cable for TX control, the transceiver may switch to the transmit mode when the computer is started.
- Always close the application on the computer before disconnecting the USB cable.

### Agree and Download

Download the virtual COM port driver installation program from our download site if and only if you agree to all of the above.

The latest version of the virtual COM port driver can be downloaded from the Silicon Labs, Inc. website (<u>http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx</u>).

Click "VCP Driver Kit" on the above website.

(The above Silicon Labs, Inc. website link URL is current as of March, 2016.)

### Uninstalling the Driver

The procedure for uninstalling the virtual COM port driver on a Windows<sup>®</sup> 7 system is shown below.

1. Click the Windows<sup>®</sup> "Start" button, and click "Control Panel".

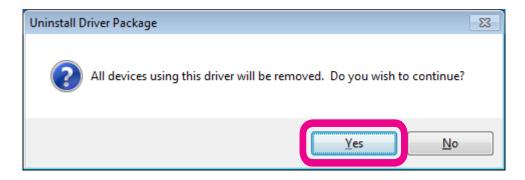


- 2. Click "Uninstall or change a program".
- 3. Uninstall the following two programs.

"Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)" "Windows Driver Package – Silicon Laboratories (silabenm) Ports (\*\*\*\*)"

Control Panel Home	Uninstall or change a program							
View installed updates	To uninstall a program, select it from the list and then							
Turn Windows features on or	To annistan a program, select it nom ale ist and aler elick onnistan, enange, or repair.							
off	Organize  Uninstall/Change					(?)		
	Name	Publisher	Installed On	Size	Version			
	ATI Catalyst Install Manager	ATI Technologies, Inc.	11/6/2012	22.4 MB	3.0.795.0			
	Intel(R) Network Connections Drivers	Intel	11/6/2012	916 KB	15.4			
	😹 Intel® Management Engine Components	Intel Corporation	11/6/2012	20.4 MB	7.0.0.1144			
	Microsoft Visual C++ 2008 Redistributable - x86 9.0.3	Microsoft Corporation	3/25/2013	608 KB	9.0.30729			
	PL-2303 USB-to-Serial	Prolific Technology INC	3/16/2013		1.7.0			
	😹 Realtek High Definition Audio Driver	Realtek Semiconductor Corp.	11/6/2012		6.0.1.5883			
	Renesas USB Development Tools Driver	Renesas Electronics Corporation	3/25/2013		1.00.01			
	SUNIX Multi-IO Controller	SUNIX Co., Ltd.	11/6/2012		7.2.0.0			
	💐 Windows Driver Package - Renesas Electronics Corpo	Renesas Electronics Corporation	3/25/2013		07/01/2010 1.1.9.0			
	Windows Driver Package - Silicon Laboratories (silabe	Silicon Laboratories	4/10/2013		12/10/2012 6.6.1.0			

- 4. First, double-click "Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)".
- 5. Uninstall by following the on-screen instructions.
- 6. When the uninstall process has been completed, double-click "Windows Driver Package Silicon Laboratories (silabenm) Ports (\*\*\*\*)" to uninstall.
- 7. The following window will appear. Click the "Yes (Y)" button.



8. Follow the on-screen instructions. If a message appears indicating that the system should be rebooted, follow the on-screen instructions and reboot the computer.

Microsoft<sup>®</sup>, Windows<sup>®</sup>, Windows<sup>®</sup> XP, Windows Vista<sup>®</sup>, Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, Windows<sup>®</sup> 8.1 and Windows<sup>®</sup> 10 are registered trademarks of Microsoft Corporation in the United States and other countries.

