

# Software Installation

Before connecting the **PA-USB/485 Protocol Adapter** to a USB port on your PC, it is necessary to install the driver.

For driver requests or additional information, contact us at info@amphenol-antennas.com.

For operation of the **PA-USB/485 Protocol Adapter** with the **NEM-ALD-W** software, please refer to the document: "<u>Network Element Manager: NEM-ALD-W User's Manual</u>".



#### DRIVER INSTALLATION

- 1. Use this link to access the driver files: <u>https://www.silabs.com/Support Documents/Software/</u> <u>CP210x Windows Drivers.zip</u>.
- 2. Copy the file "CP210x\_Windows\_Drivers.zip" into a temporary folder.
- 3. Extract the contents of "CP210x\_Windows\_Drivers.zip" to a folder of the same name
- 4. The zip file includes a file called "v6-7-6-driver-releasenotes.txt" with detailed instructions; a brief instruction follows.
- 5. Determine if you are running a 32-bit or 64-bit version of Windows OS:
  - a. In the search window on the Windows task bar, type "System Information" and press enter.

System Information

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b. In the **System Information** window, locate the **System Type** property, for example:



 Open the "CP210x\_Windows\_Drivers" folder. If your System Type is x64 as in the example above, then execute "CP210xVCPInstaller\_x64.exe".

Name	Date modified	Size
x64	6/15/2018 11:13 AM	
<mark>x</mark> 86	6/15/2018 11:13 AM	
職 CP210xVCPInstaller_x64.exe	9/27/2017 1:58 PM	1,026 KB
職 CP210xVCPInstaller_x86.exe	9/27/2017 1:58 PM	903 KB
dpinst.xml	9/27/2017 1:45 PM	12 KB
SLAB_License_Agreement_VCP_Windows	9/27/2017 1:46 PM	9 KB
slabvcp.cat	6/1/2018 4:35 PM	11 KB
slabvcp.inf	6/1/2018 4:35 PM	8 KB
v6-7-6-driver-release-notes.txt	6/15/2018 2:51 PM	16 KB



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#### DRIVER INSTALLATION

7. Once launched, the installer displays the following prompt. Click **YES** to begin the installation.

User Account Control	×
Do you want to allow this app to make changes to your device?	
💐 Driver Package Installer	
Verified publisher: Silicon Laboratories Inc. File origin: Hard drive on this computer	
Show more details	
Yes No	

9. Be sure to read the terms of the license and click the option to accept it. Click **NEXT** to begin the installation.

#### CP210x USB to UART Bridge Driver Installer

License Ag	reement	
Ż	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 O I don't accept this agreement D I don't accept this agreement	<b>`</b>
	< <u>B</u> ack <u>N</u> ext > (	Cancel

8. Click NEXT to continue.

10. The installation completes quickly.





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### DRIVER INSTALLATION

11. Click **FINISH** to complete the installation.

CP210x USB to UART Bridge Dri	ver Installer	
	Completing the Ins CP210x USB to UA	stallation of the RT Bridge Driver
	The drivers were successfully in	stalled on this computer.
	You can now connect your dev came with instructions, please re	ice to this computer. If your device and them first.
	Driver Name	Status
	✓ Silicon Laboratories Inc	Ready to use
	< <u>B</u> ack	Finish Cancel

- 12. Now, when the PA-USB/485 Protocol Adapter is connected to a USB port on the PC, Windows automatically detects it and links it to a virtual COM port. The COM port number is automatically selected by Windows to avoid any hardware conflicts with other serial devices. However, the COM port number can be manually modified as follows.
- 13. In the search window on the Windows task bar, type "Device Manager" and press enter.
  - 🛨 🔎 Device Manager

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 In the Device Manager window, expand the Ports (COM & LPT) item, and locate the Silicon Labs CP210x USB to UART Bridge. Note, for example below, the PA is assigned to COM4.

🗄 Device Manager — 🗆	×
<u>File Action View H</u> elp	
> 📖 Keyboards	~
> II Mice and other pointing devices	
> 🛄 Monitors	
> 🖵 Network adapters	
> 😰 Other devices	
🗸 🛱 Ports (COM & LPT)	
🗒 Intel(R) Active Management Technology - SOL (COM8)	
💭 Silicon Labs CP210x USB to UART Bridge (COM4)	
> 📇 Print queues	
> 📇 Printers	
> 🔲 Processors	~

15. Right click on Silicon Labs CP210x USB to UART Bridge, and in the pop-up window select Properties.





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16. In the **Properties** window, click on the **ADVANCED** button.

Silicon Labs CP210x USB to UART Bridge (COM4) Properties	Х
General Port Settings Driver Details Events Power Management	
<u>B</u> its per second: 9600 ∨	
Data bits: 8 ~	
<u>P</u> arity: None ∨	
Stop bits: 1 ~	
Elow control: None ~	
<u>A</u> dvanced <u>R</u> estore Default	S
OK Canc	el

17. In the **Advanced Settings** window, click the drop-down list to change the COM port number as required.

Advanced Settings for COM4							×
Use FIFO buffers (requ Select lower settings t Select higher settings t	uires 16550 o correct co for faster pe	compatible UAR nnection problen formance.	T) ns.				OK Cancel
Receive Buffer: Low (1)				Ţ	High (14)	(14)	Derauits
<u>T</u> ransmit Buffer: Low (1)				Ţ	High (16)	(16)	
COM Port Number: COM4	~						

 Avoid selecting COM ports that are labeled "in use" as these may cause hardware conflicts.

COM Port Number:	COM4	~
	COM1	^
	COM2 COM3 (in use)	
	COM4	
	COM5	
	COM7	
	COM8 (in use)	

- 19. Click OK to accept the changes as you back out and close windows.
- 20. Note that more than one **Protocol Adapter** may be installed when more than one instance of the NEM-ALD-W software is needed.



#### **OPERATION NOTE**

For operation of the **Protocol Adapter** with the **NEM-ALD-W** software, please refer to the document: "<u>Network Element</u>. <u>Manager: NEM-ALD-W User's Manual</u>".



# Software Installation

### UNINSTALLING THE DRIVER

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To uninstall the driver:

 In the search window on the Windows task bar, type "Apps & features" and press enter.

2. In the **Apps & features** window, locate the Silicon Laboratories driver and click **UNINSTALL**.

Settings	- 0	
A Home	Apps & features	
Find a setting	Choose where to get apps	
Apps	Installing apps only from Microsoft Store helps protect your device.	
E Apps & features	Anywhere $\checkmark$	
E Default apps	Apps & features	
印 <u>i</u> Offline maps	Optional features	
Apps for websites	App execution aliases	
□ Video playback	Search, sort, and filter by drive. If you would like to uninstall or move a app, select it from the list.	n
	Search this list	
	Sort by: Install date $\checkmark$ Filter by: All drives $\checkmark$	
	173 apps found	
	2/14/2024	4
	Mozilla Firefox (x64 en-US) 225 MI 2/14/2024	3
	Windows Driver Package - Silicon Laboratories Inc. (silabser) Ports (05/23/2018 6.7.6.2130)	
	05/23/2018 6.7.6.2130	\$
	Modify Uninstall	l
	Adobe Acrobat Reader 721 Mi 2/13/2024	3

3. And click UNINSTALL at the next pop-up:



4. Click YES to confirm:

5. Click YES to begin the uninstall process.



 There is no confirmation that the removal is complete. Verify that the item has been removed from the list of Apps & features.



# Approved AISG Hardware Control Utilizing a Protocol Adapter

The Amphenol PA-USB/485 Protocol Adapter may be used to control Amphenol AISG compliant ACU (RET) models in the following configuration with no operational issues as long as the appropriate software and hardware options described here are used.

CAUTION: The PA-USB/485 Protocol Adapter is NOT to be used as a power source to run AISG compliant TMAs in an operational system. This application is not approved by, nor is it supported by Amphenol Antenna Solutions. While it is possible for the Protocol Adapter to pass AISG control signals and power through the TMA to run the ACUs, using it as a TMA power supply can damage both the TMA and Protocol Adapter.

#### SOFTWARE

- The correct software to use this configuration is NEM-ALD-W x.x AISG 2.0.
- Appropriate USB to RS485 driver files for the PA-USB/485 Protocol Adapter must also be installed.

#### HARDWARE

- PA-USB/485 Protocol Adapter (USB Connection)
- To run AISG 2.0 ACUs when using an AISG homerun cable to controller requires the use of a Protocol Adapter to convert from the PC's USB port to an RS-485 signal.

Connect the male end of the homerun cable directly to the female connector on the Adapter.

The AISG homerun cable female connector attaches to the male connector on the first ACU in the antenna configuration.



#### **ORDERING OPTIONS** Select from the following ordering options

MODEL NUMBER	DESCRIPTION
PA-USB/485-1	Protocol Adapter with CA015-1 cord - Europe and Asia
PA-USB/485-2	Protocol Adapter with CA015-2 cord - North America
PA-USB/485-3	Protocol Adapter with CA015-3 cord - Austratlia and New Zealand