Amphenol
ANTENNA SOLUTIONS

| OPTIMIZER ® | RT PROTOCOL ADAPTER | AISG COMPLIANT |

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: "Network Element Manager: NEM-ALD-W User's Manual".
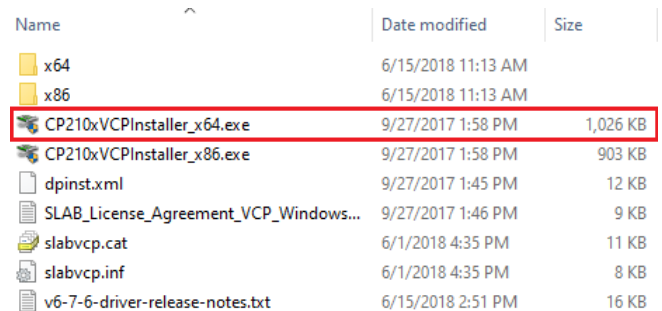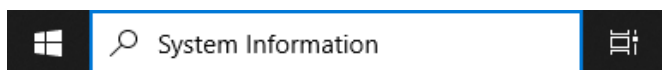
DRIVER INSTALLATION

1. Use this link to access the driver files: https://www.silabs.com/Support Documents/Software/ CP210x_Windows_Drivers.zip.

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-release-notes.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.

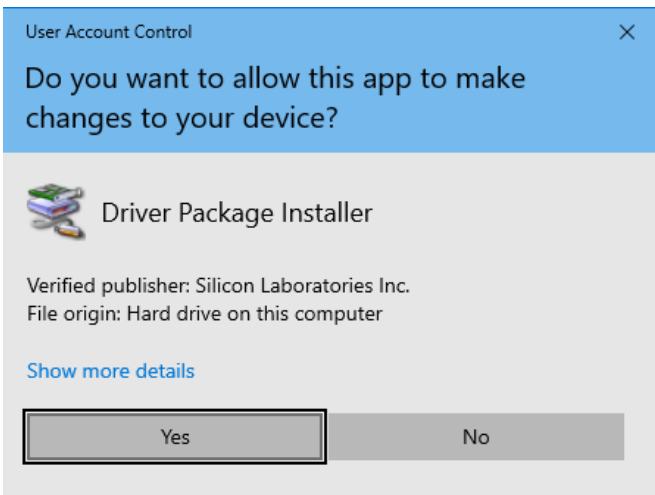b. In the **System Information** window, locate the **System Type** property, for example:
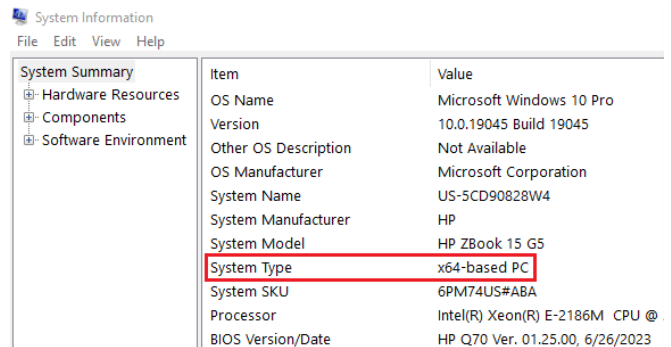
6. Open the "CP210x_Windows_Drivers" folder. If your **System Type** is x64 as in the example above, then execute "CP210xVCPInstaller_x64.exe".
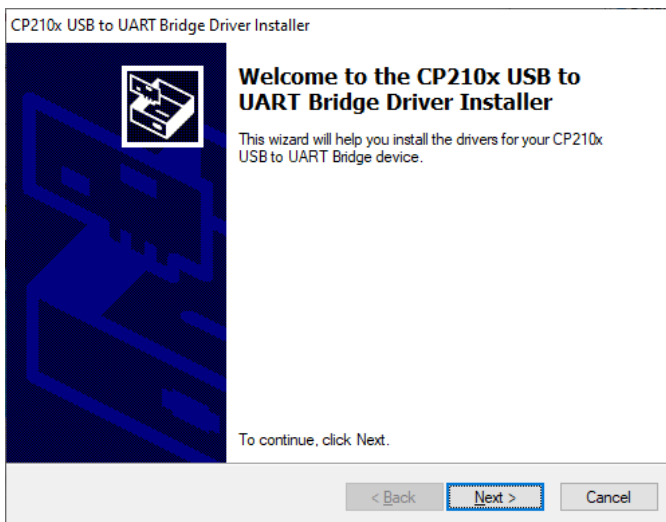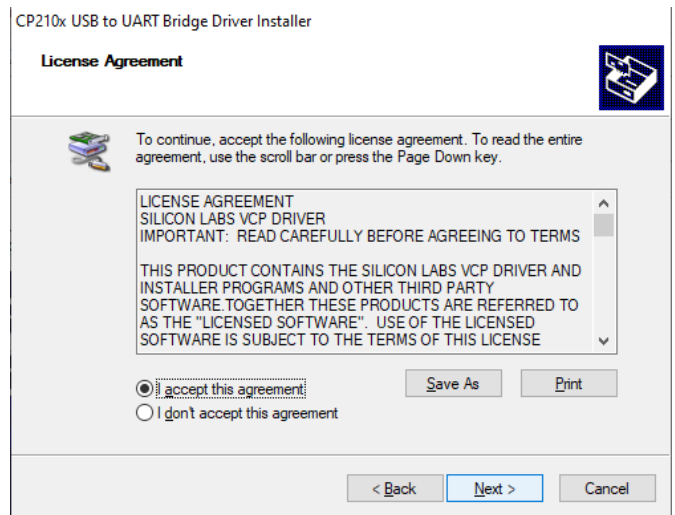
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7. Once launched, the installer displays the following prompt. Click **YES** to begin the installation.
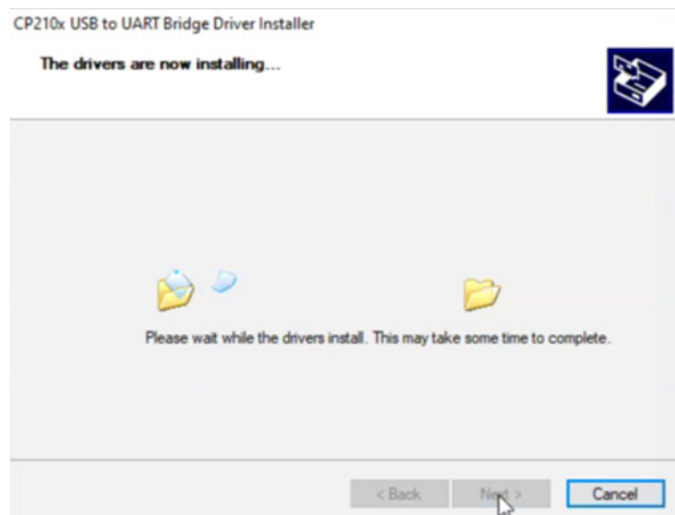

8. Click **NEXT** to continue.

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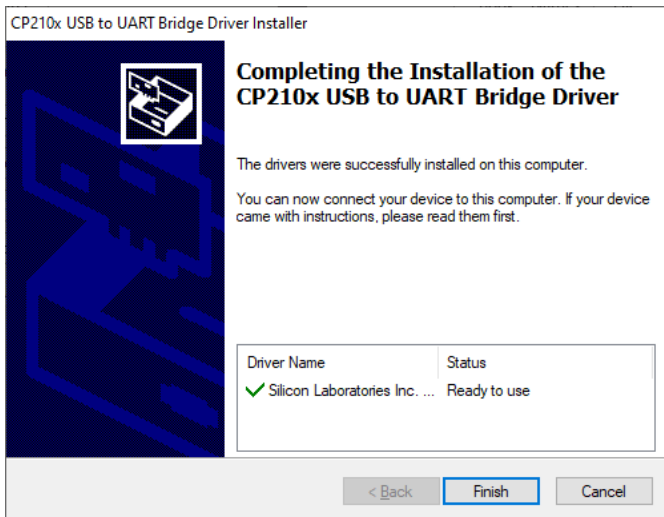

10. The installation completes quickly.

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DRIVER INSTALLATION

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

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.
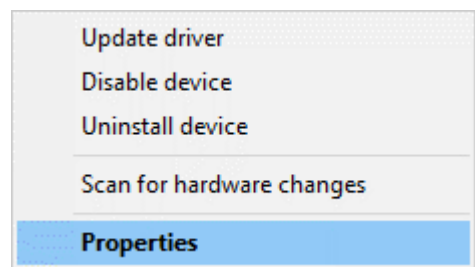
13. In the search window on the Windows task bar, type "**Device Manager**" and press enter.
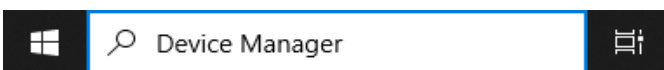
14. In the **Device Manager** window, expand the **Ports (COM & LPT)** item, and locate the **Silicon Labs CP210x USB to UART Bridge**. Note, for example below, the PA is assigned to **COM4**.
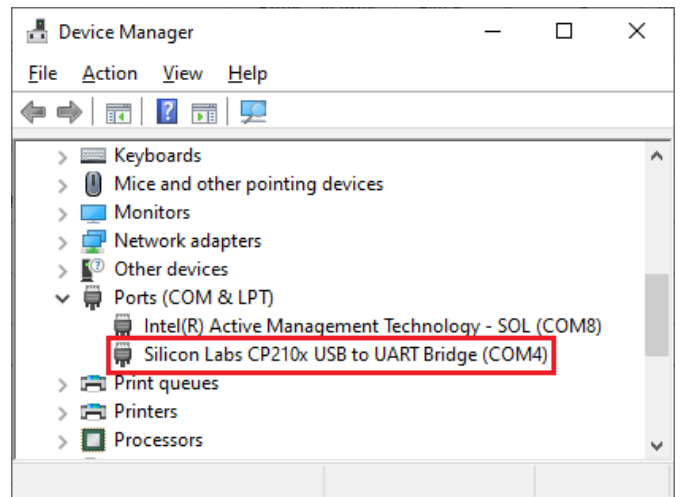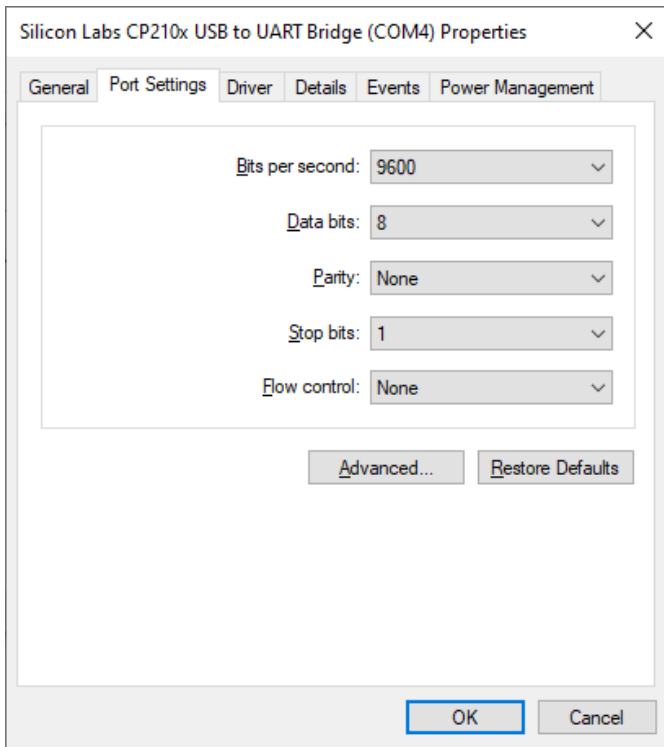

15. Right click on **Silicon Labs CP210x USB to UART Bridge**, and in the pop-up window select **Properties**.
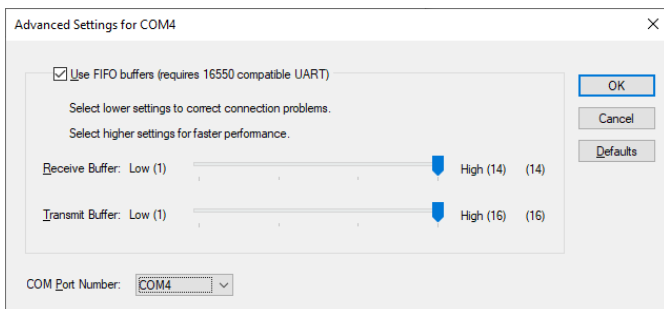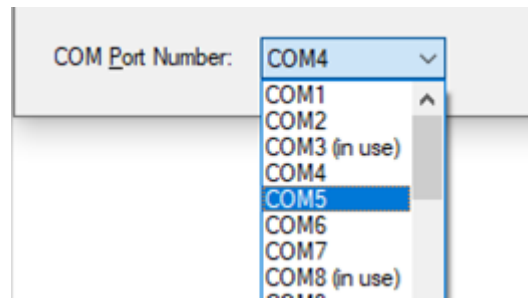
Software Installation

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

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

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

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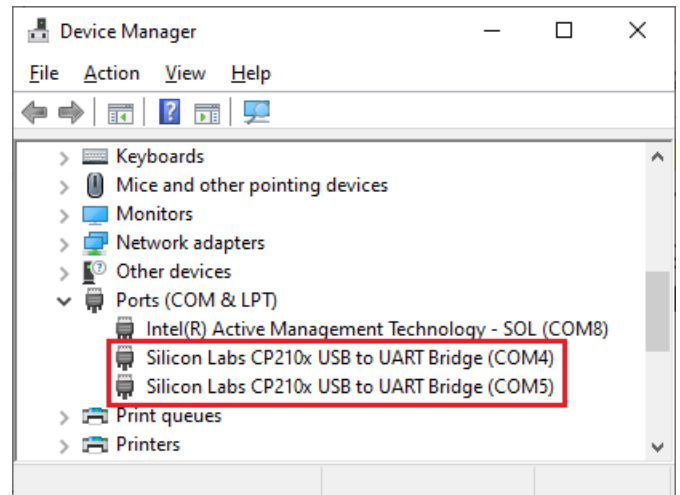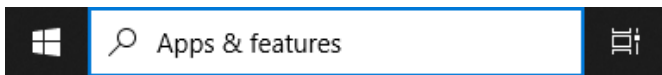
For operation of the **Protocol Adapter** with the **NEM-ALD-W** software, please refer to the document: "Network Element Manager: NEM-ALD-W User's Manual".

Software Installation

UNINSTALLING THE DRIVER

To uninstall the driver:

1. 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.
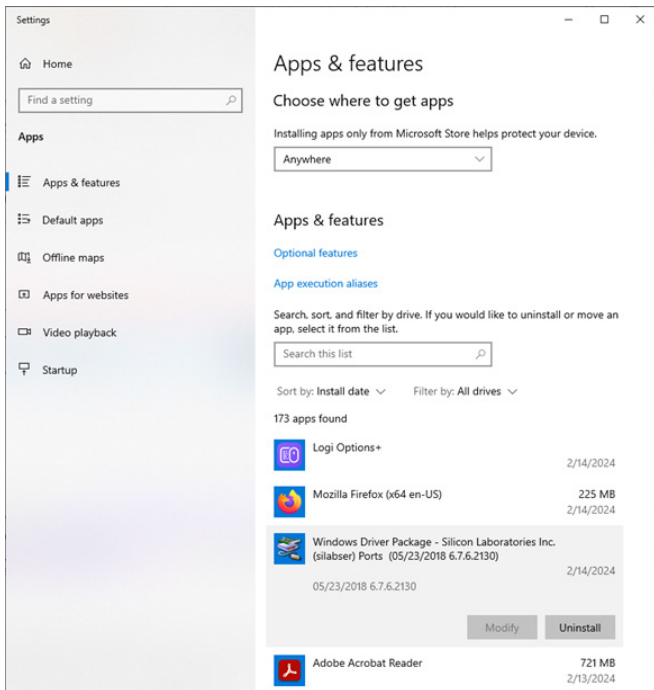
3. And click UNINSTALL at the next pop-up:
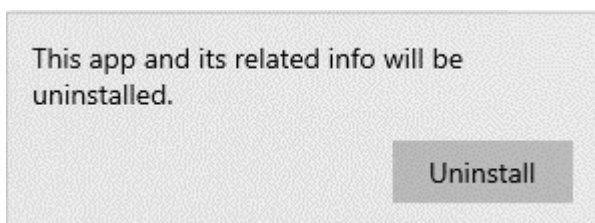
4. Click **YES** to confirm:

5. Click **YES** to begin the uninstall process.

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

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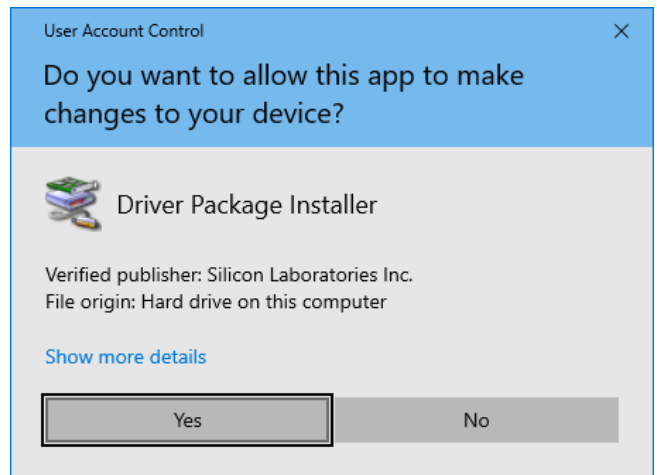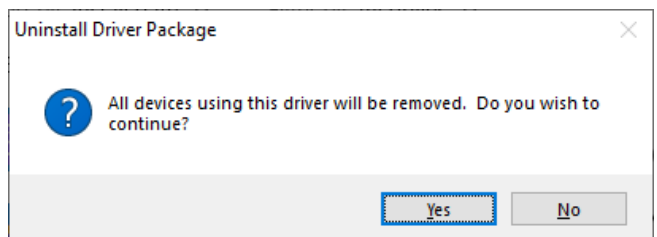| OPTIMIZER ® | RT PROTOCOL ADAPTER | AISG COMPLIANT |

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.
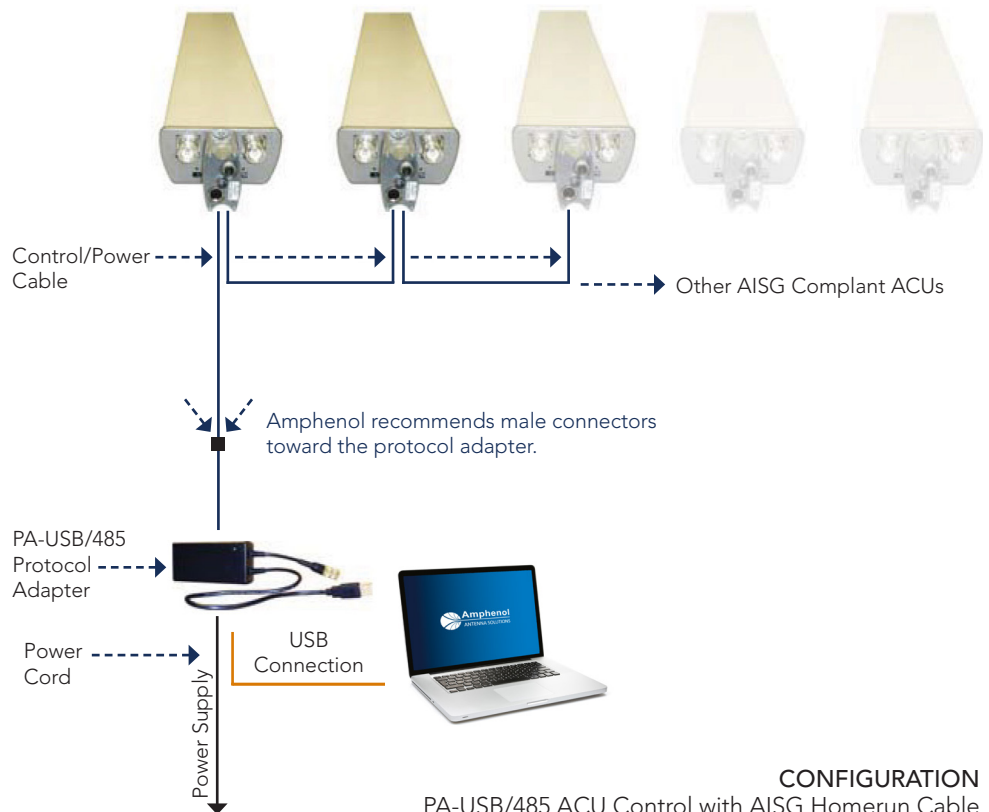
SOFTWARE

- 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.

Control/Power Cable

Other AISG Complant ACUs

Amphenol recommends male connectors toward the protocol adapter.

PA-USB/485 Protocol Adapter

Power Cord

USB Connection

Power Supply

CONFIGURATION
PA-USB/485 ACU Control with AISG Homerun Cable

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