

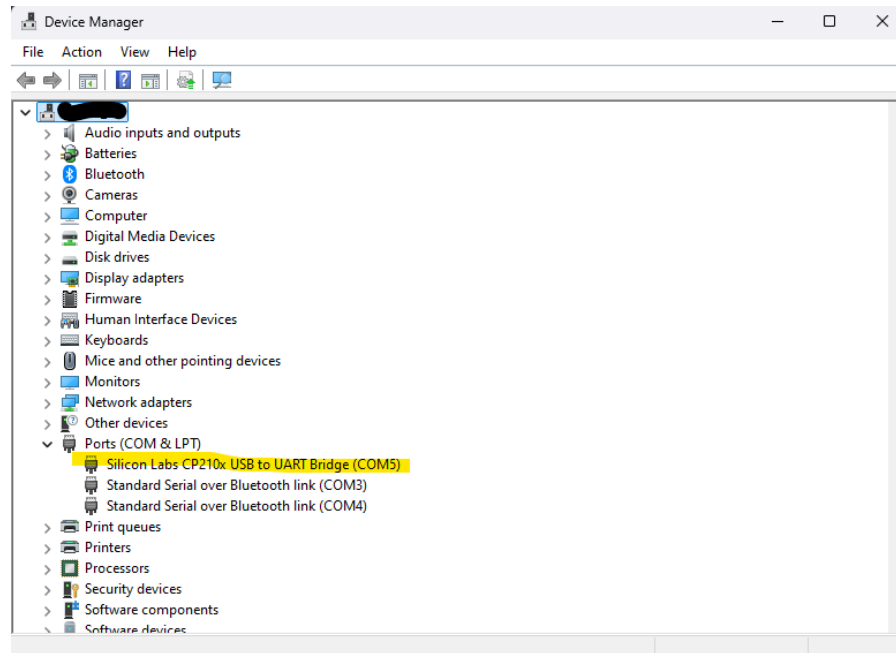
How to Make Your PC Recognize an ESP32 Board for Windows

1. Connect Your ESP32 to Your PC

- Plug your ESP32 board into a USB port on your computer using a USB cable.

2. Check If Your Computer Detects the ESP32

- Open the **Start Menu**, type **Device Manager**, and click on it to open.



- In **Device Manager**, look for a section called **"Ports (COM & LPT)"**.
- If you see **"CP210x USB to UART Bridge"**, your computer has recognized the ESP32. **You can skip to Step 5.**

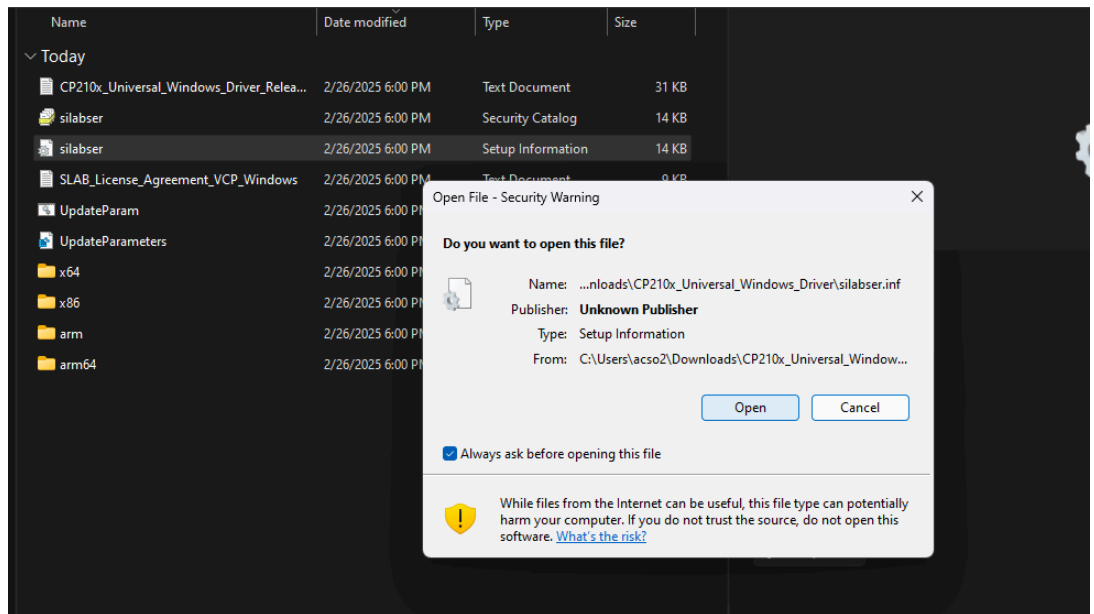
3. Download the Driver:

- Open your web browser and go to:
[Silicon Labs CP210x USB to UART Bridge Driver](#)
- Scroll down to the Downloads section.
- Click on **"CP210x Universal Windows Driver"** to download the file.
- The driver will be downloaded as a ZIP file.

4. Install the Driver

- Locate the Downloaded File:
 - Open your Downloads folder.
 - Find the ZIP file you just downloaded.
- Extract the File:
 - Right-click on the ZIP file and select "Extract All..."
 - Choose a location and click "Extract".
- Install the Driver:
 - Open the extracted folder.
 - Find the file named ***silabser.inf***.
 - Right-click on it and select "Install".
- Follow the Instructions:

- i. If prompted, confirm any installation steps.



- ii. Wait for the installation to complete.

5. Check Com Port Settings

- a. Open Device Manager as instructed in Step 1 and find the COM Port tab:
- b. Scroll down and expand **"Ports (COM & LPT)"**.
 - i. Look for **"CP210x USB to UART Bridge"** followed by a COM port number (e.g., COM3 or COM5).
- c. **Verify the Port Number:**
 - i. Right click go into 'Properties' and under 'Port Settings' note the following:
 - 1. Port Number: **'COM5'** - *Note: this can be different for you.*
 - 2. Bits per Second: **115200**
 - ii. You will need the information for install/ modifying the script in Arduino IDE.

