

Prerequisites and Installation Guide

- Downloading link for Arduino IDE:

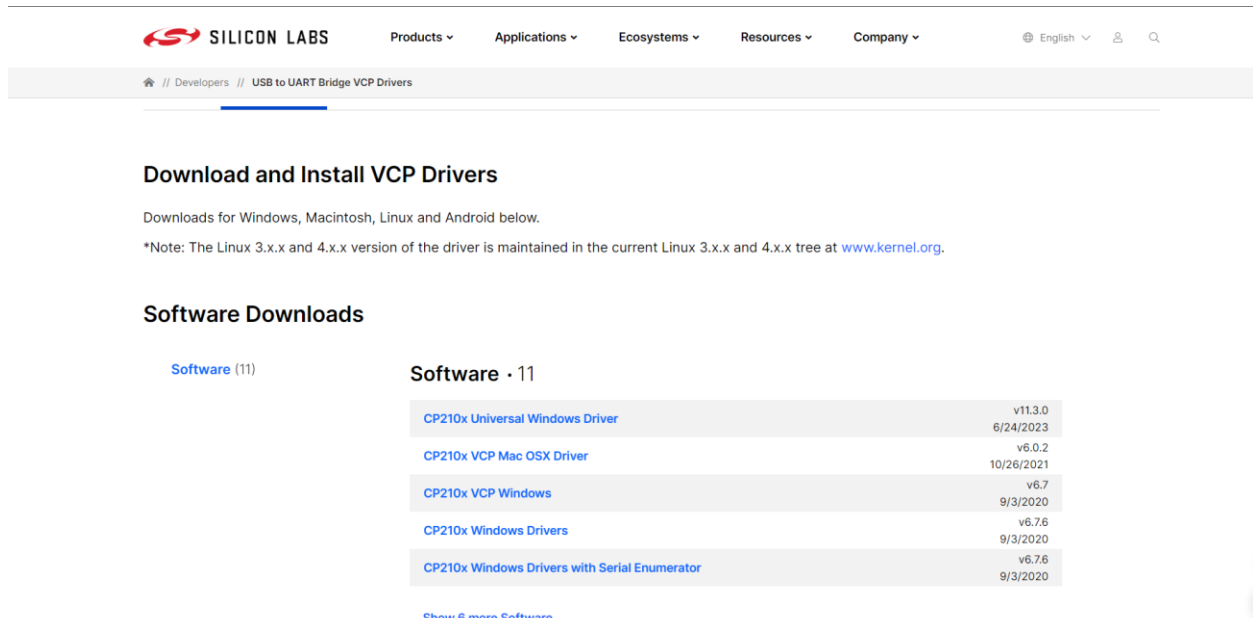
<https://www.arduino.cc/en/software> > select the download option corresponding to your operating software

- For port Visibility

1. Download CP210x USB to UART Bridge

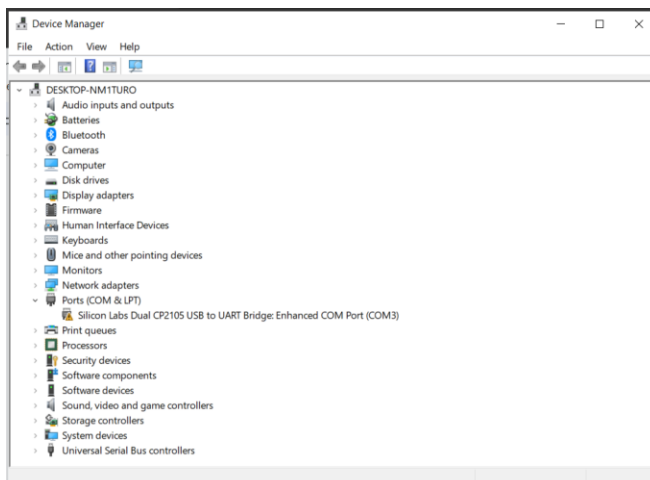
<https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads>

2. Select CP210x Universal Windows Driver



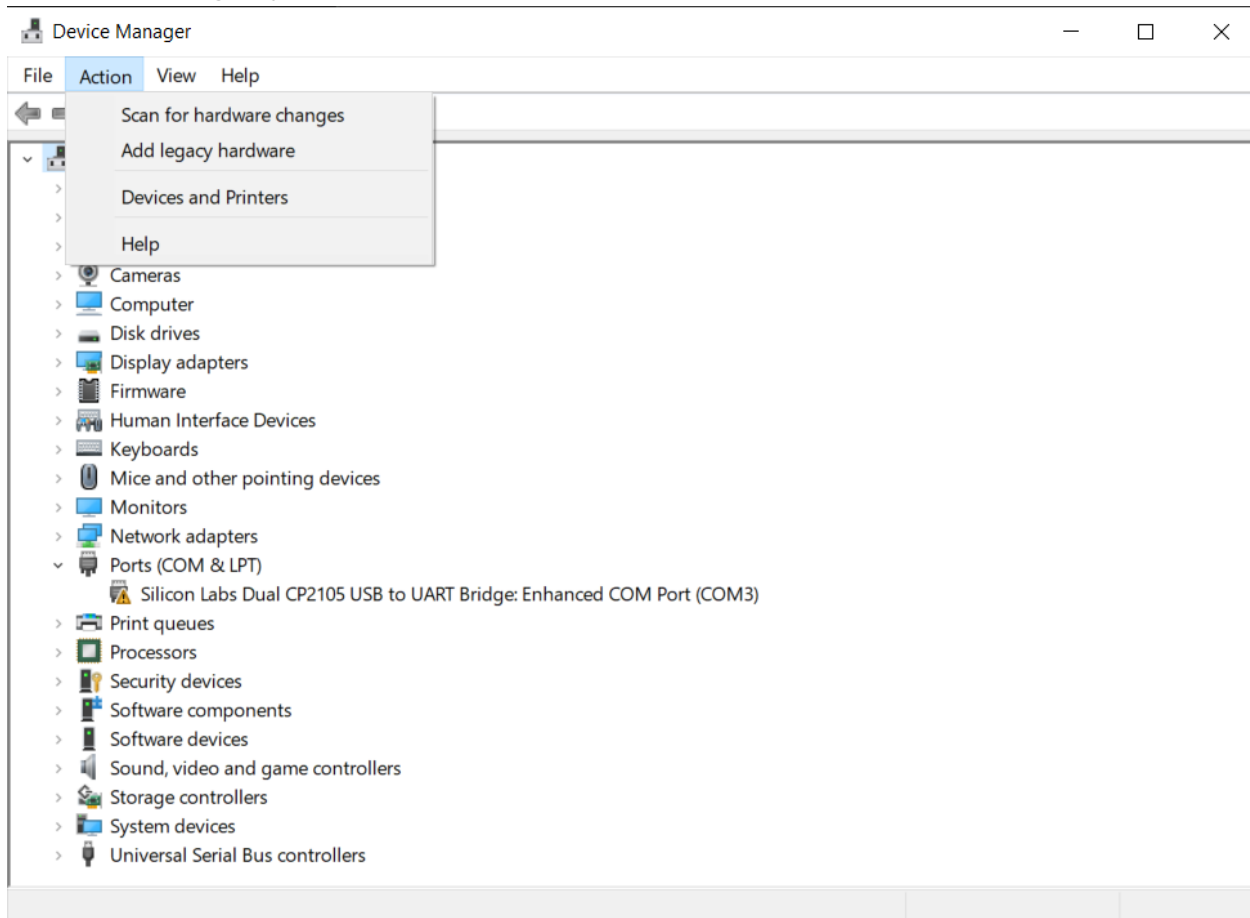
The screenshot shows the Silicon Labs website with the navigation bar and the 'USB to UART Bridge VCP Drivers' page. The page title is 'Download and Install VCP Drivers'. Below the title, it says 'Downloads for Windows, Macintosh, Linux and Android below.' and a note: '*Note: The Linux 3.x.x and 4.x.x version of the driver is maintained in the current Linux 3.x.x and 4.x.x tree at www.kernel.org.' The 'Software Downloads' section shows a list of software downloads for Windows, including 'CP210x Universal Windows Driver' (v11.3.0, 6/24/2023), 'CP210x VCP Mac OSX Driver' (v6.0.2, 10/26/2021), 'CP210x VCP Windows' (v6.7, 9/3/2020), 'CP210x Windows Drivers' (v6.7.6, 9/3/2020), and 'CP210x Windows Drivers with Serial Enumerator' (v6.7.6, 9/3/2020). A link 'Show 6 more Software' is also present.

3. Go To device Manager > select Action in the menu bar

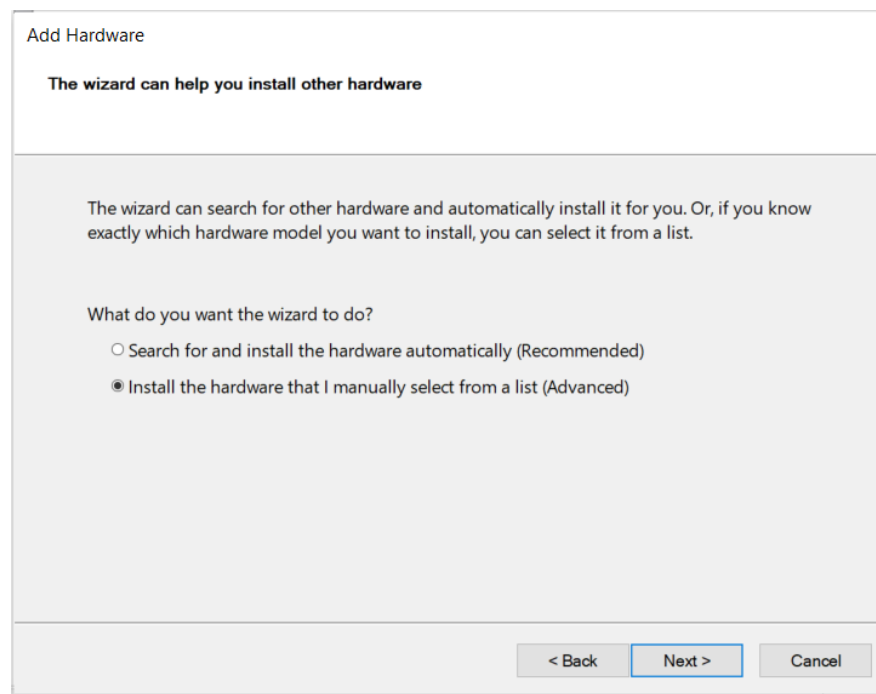


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4. Add legacy hardware



5. select Install the hardware manually and click next



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6. Select PORTS(COM & LPT)> silicons labs> silicon labs CP210x USB to UART Bridge > click next > finish

Add Hardware

Select the device driver you want to install for this hardware.

Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.

Manufacturer	Model
Linino	Silicon Labs CP210x USB to UART Bridge Version: 11.3.0.176 [1]
Microsoft	Silicon Labs CP210x USB to UART Bridge Version: 6.7.4.261 [1]
Quatech	Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced CO
Silicon Labs	Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced CO

This driver is digitally signed. [Tell me why driver signing is important](#)

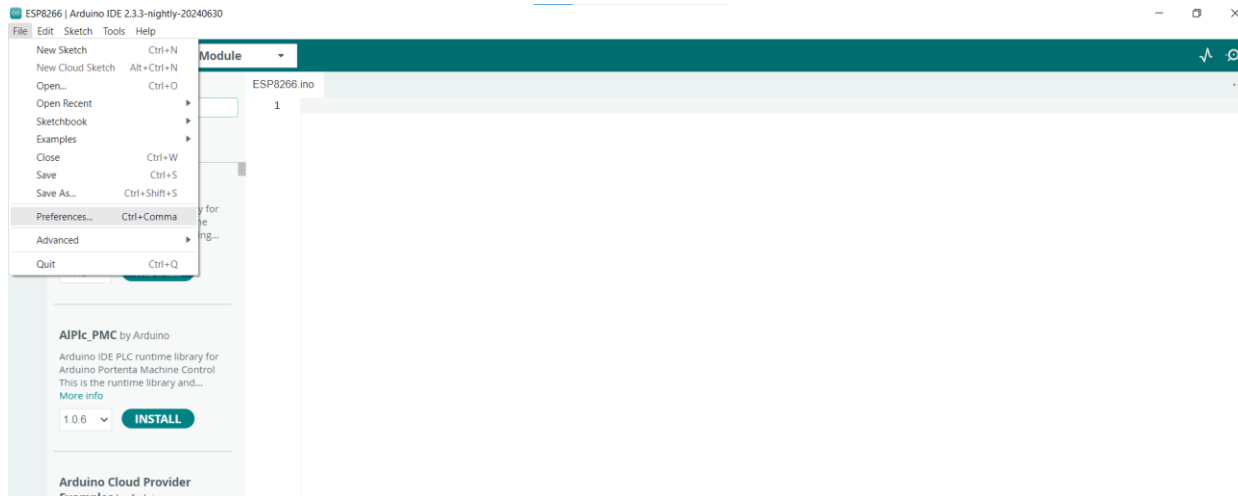
Have Disk...

< Back Next > Cancel

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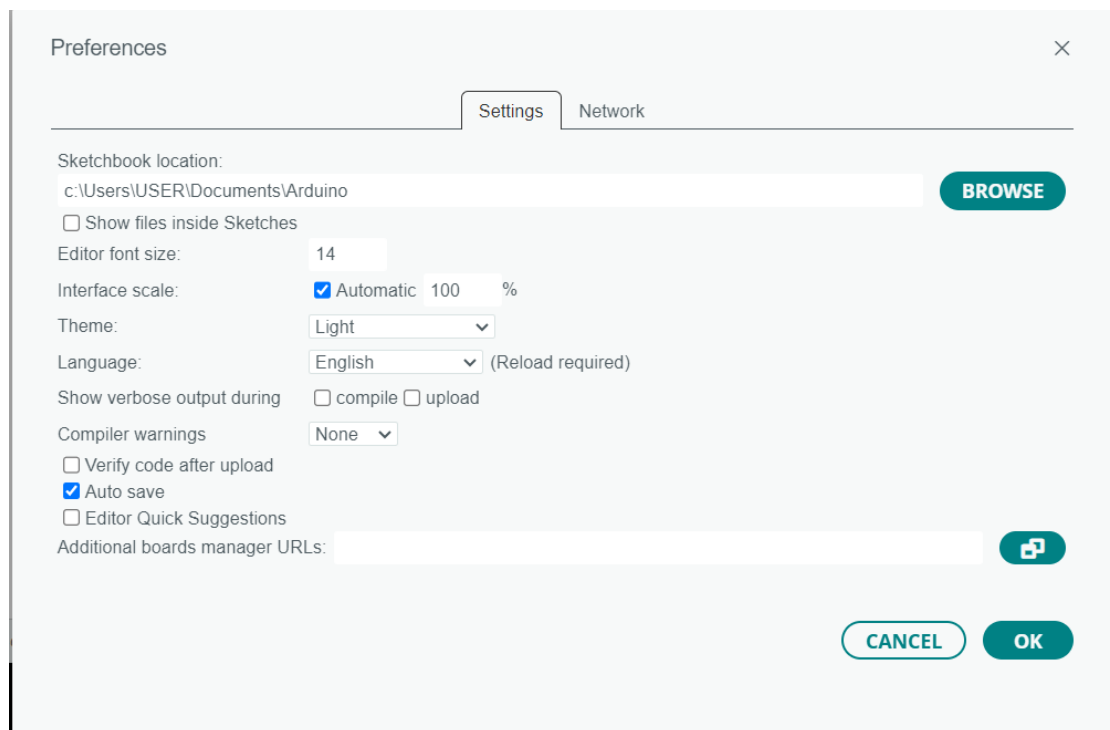
- Installing board Module

- Select File from menu bar > select preferences



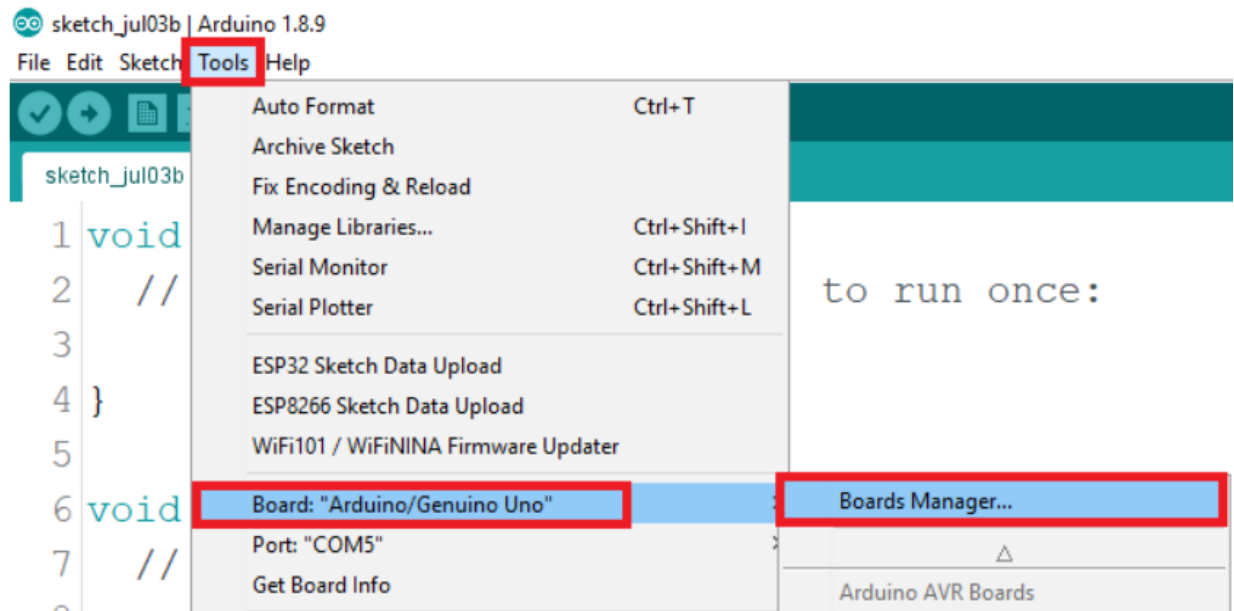
- Preference windows will show up. In additional boards manager URLs type this:

http://arduino.esp8266.com/stable/package_esp8266com_index.json

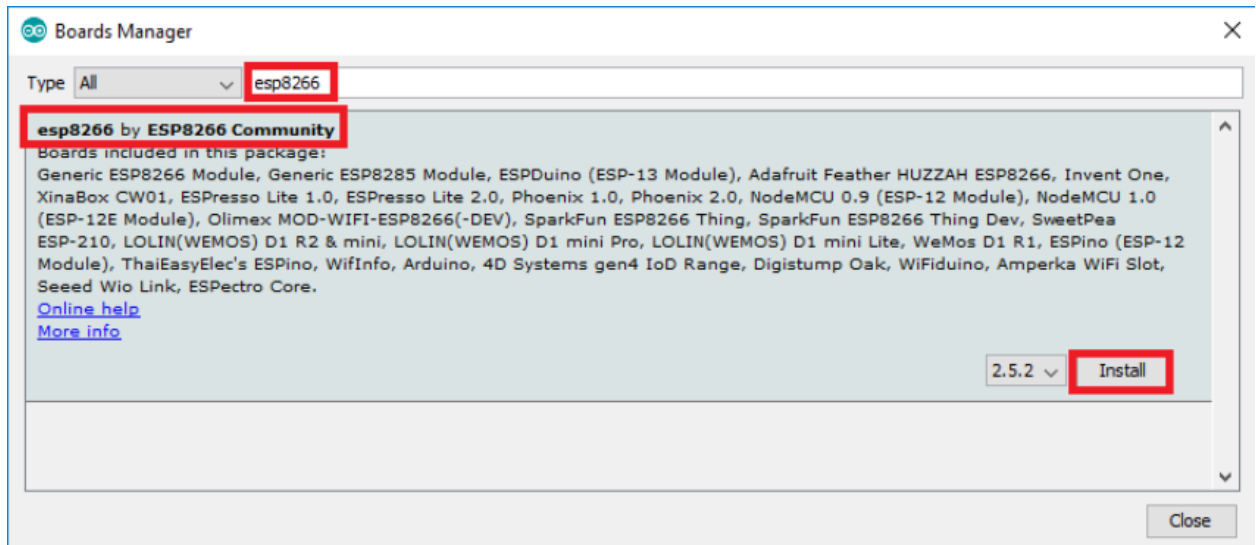


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- Open the Boards Manager. Go to Tools > Board > Boards Manager...



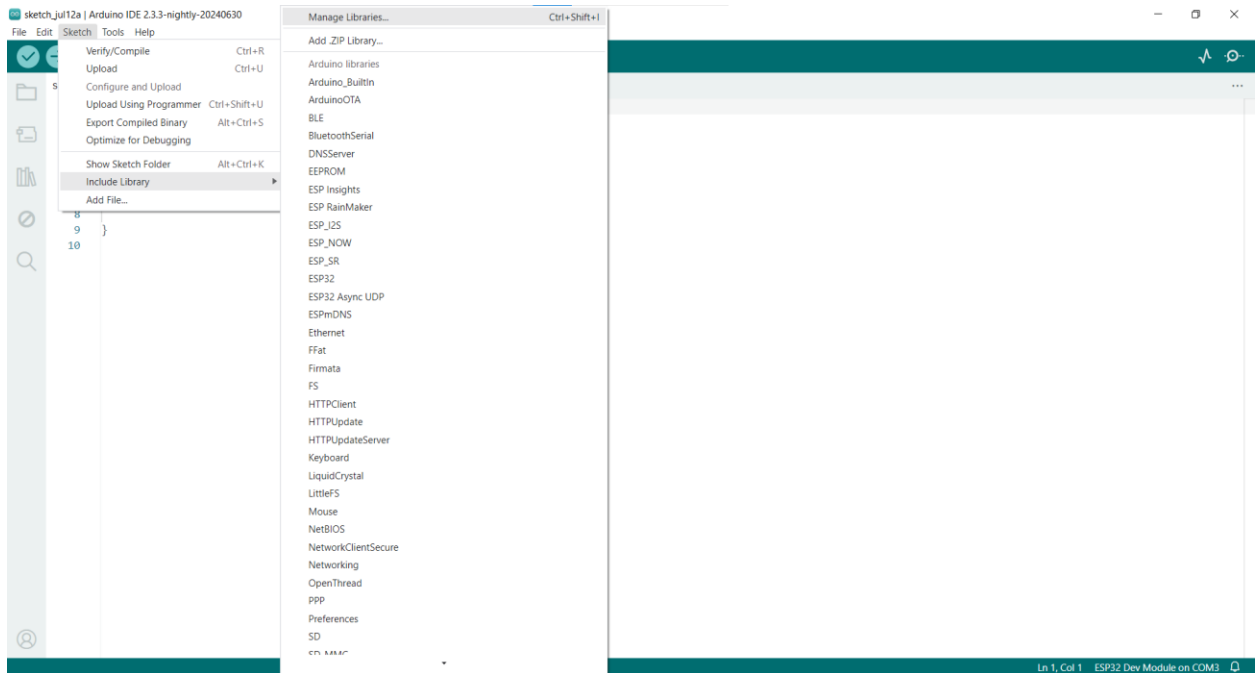
- Search for ESP8266 and press install button for the “ESP8266 by ESP8266 Community”



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- Installing Libraries In Arduino IDE:

- Select sketch > Include library > Manage Library



- Download DHT11 sensor Library By Adafruit and firebase arduino client library for ESP 8266 and ESP32

