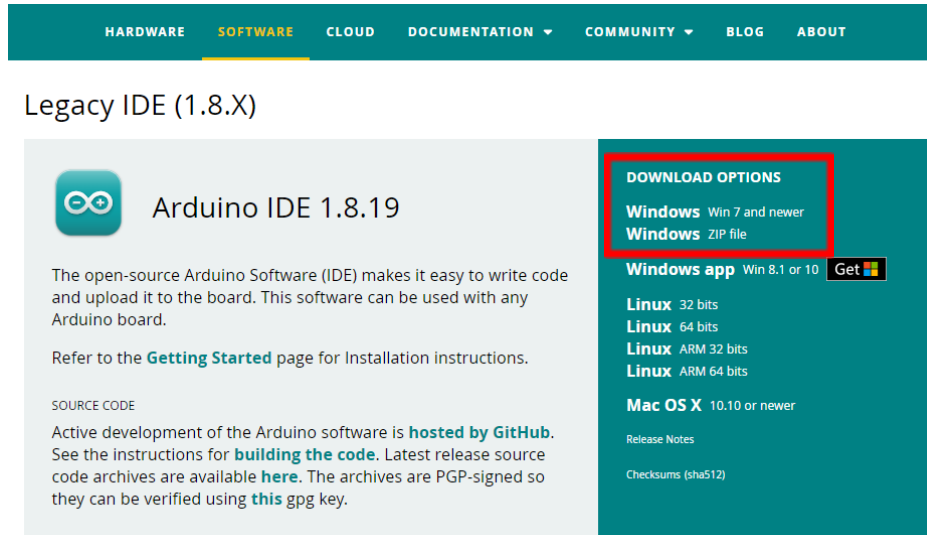


Arduino IDE Configuration & Installation

Step # 1 : Download IDE

Download and Install **Arduino IDE** from <https://www.arduino.cc/en/software>



Arduino IDE 1.8.19

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

DOWNLOAD OPTIONS

- Windows** Win 7 and newer
- Windows** ZIP file
- Windows app** Win 8.1 or 10
- Linux** 32 bits
- Linux** 64 bits
- Linux** ARM 32 bits
- Linux** ARM 64 bits
- Mac OS X** 10.10 or newer

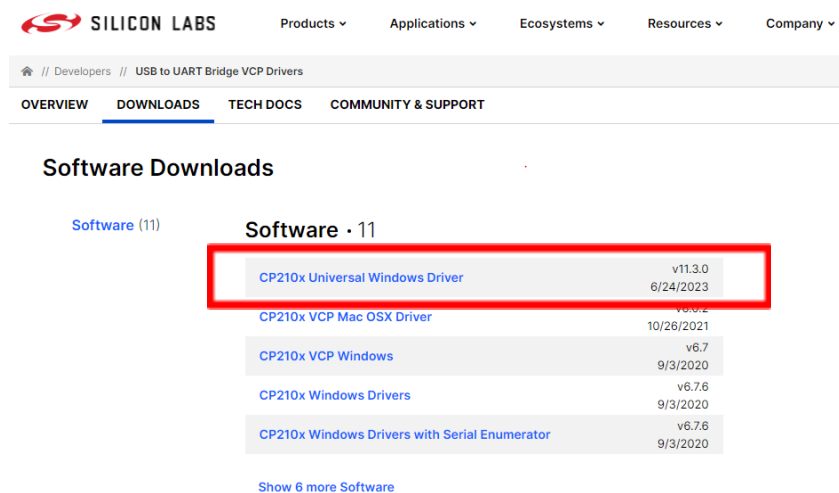
[Release Notes](#)

[Checksums \(sha512\)](#)

Step # 2 : Download Driver

Download and Install **CP210x Universal Windows Driver** from

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



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Software Downloads

Software (11)

Software · 11

CP210x Universal Windows Driver	v11.3.0 6/24/2023
CP210x VCP Mac OSX Driver	v6.6.2 10/26/2021
CP210x VCP Windows	v6.7 9/3/2020
CP210x Windows Drivers	v6.7.6 9/3/2020
CP210x Windows Drivers with Serial Enumerator	v6.7.6 9/3/2020

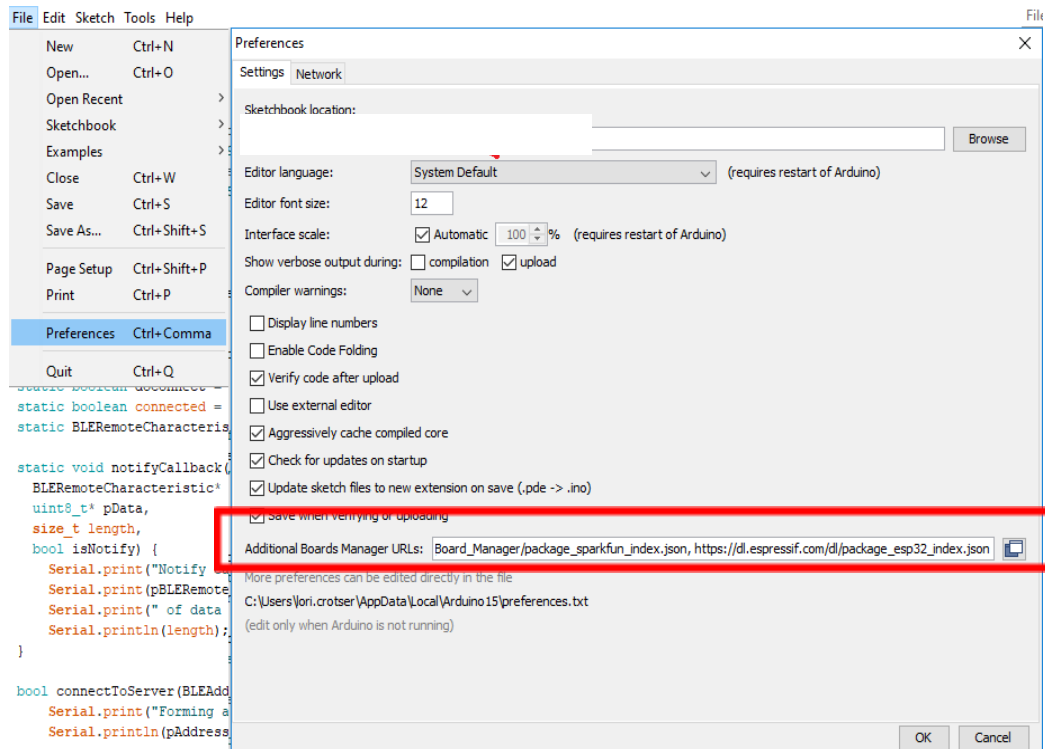
[Show 6 more Software](#)

Step # 3 : Include Preferences

Paste the following preferences in the Additional Boards Manager URLs i.e. File > Preferences

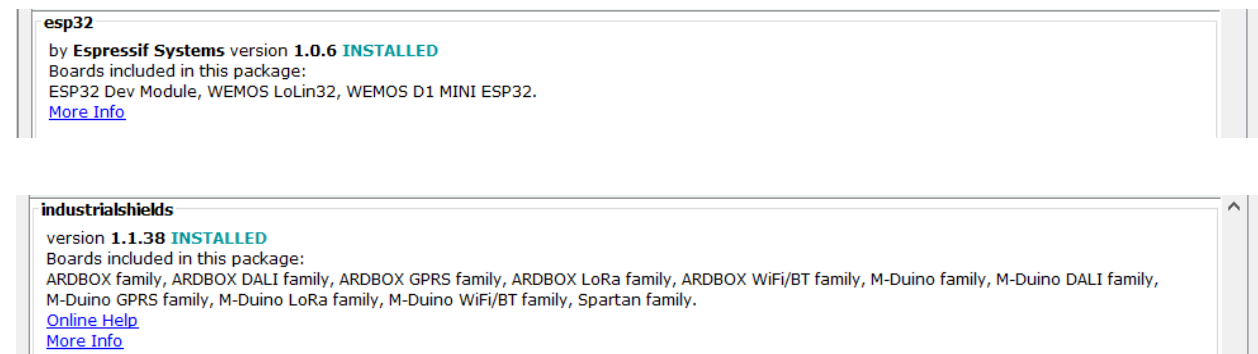
https://dl.espressif.com/dl/package_esp32_index.json,

http://apps.industrialshields.com/main/arduino/boards/package_industrialshields_index.json



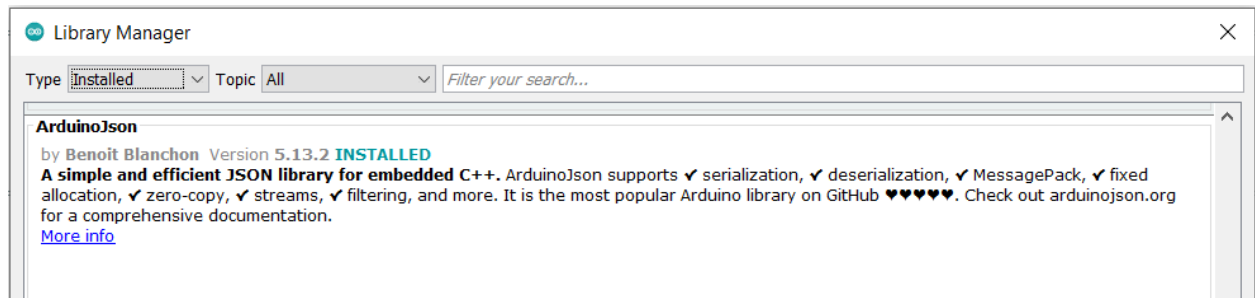
Step # 4 : Install Boards

Now go to Tools > Board > Board Manager and download the following boards

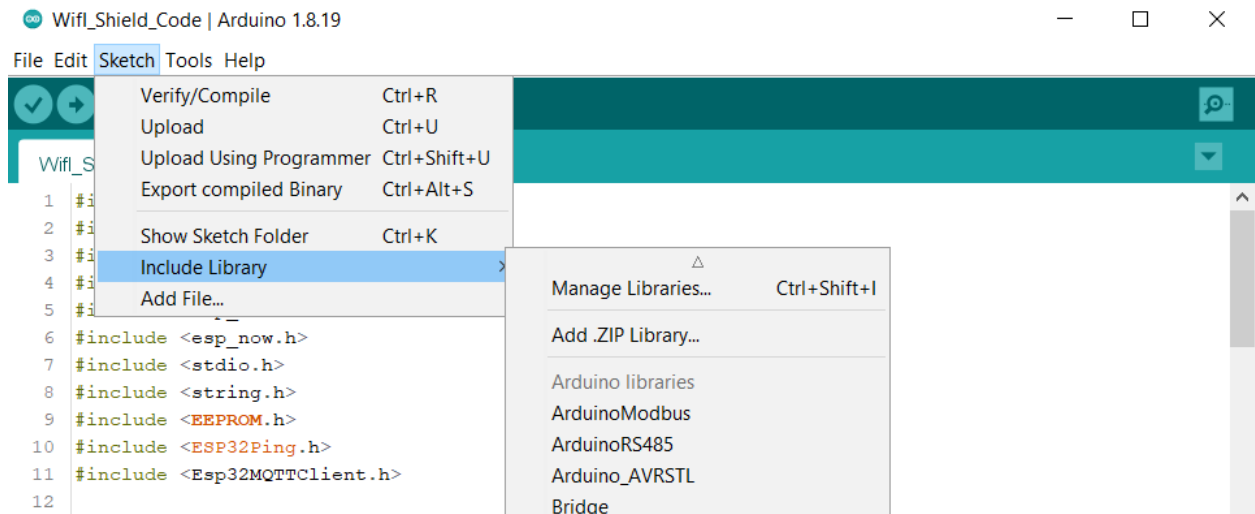


Step # 5 : Install Libraries

Go to Sketch > Include Library > Manage Libraries and install “Arduino JSON by Benoit”



Also download the Esp32 Ping library (Zip file) from <https://github.com/marian-craciunescu/ESP32Ping> and include it in the Arduino IDE Libraries from Sketch > Include Library > Add. Zip Library



Step # 6 : Select Boards

For PLC : Select Tools > boards > industrial shields boards > M-Duino Family (Model : M-Duino 21+)

For WiFi Shield : Select Tools > boards > ESP32 Arduino > Sparkfun ESP32 Thing Plus

Congratulation !!!
Now you can use PLC and Wi-Fi Shield Codes