

INSTALLATION OF ESP32

Installation of Arduino environment

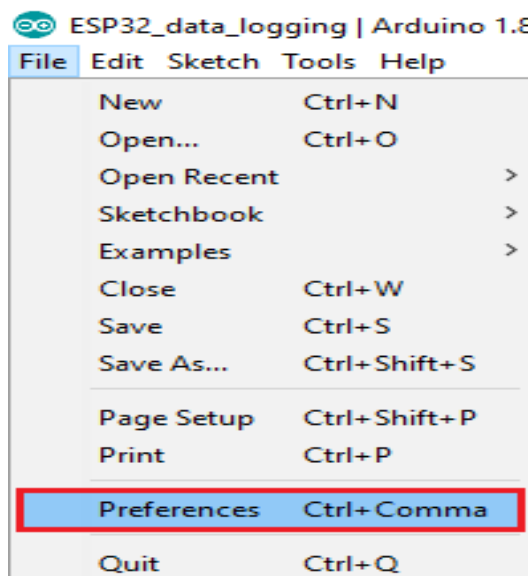
Firstly it is necessary to use the Arduino IDE development environment.

Download and install Arduino IDE from the link

<https://www.arduino.cc/en/Main/Software>

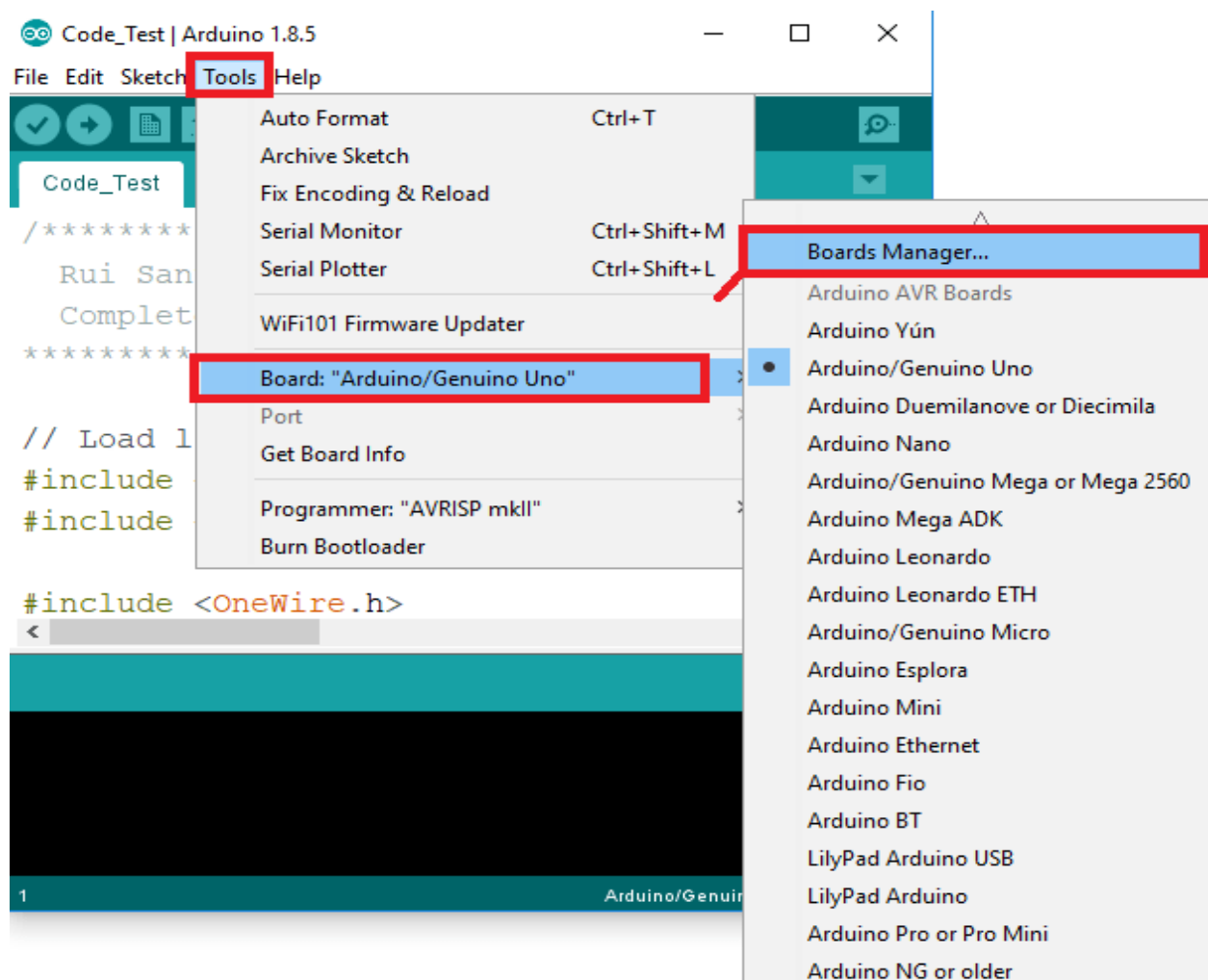
Installing ESP32 Add-on in Arduino IDE

To install the ESP32 board in your Arduino IDE, follow these next instructions: In your Arduino IDE, go to **File > Preferences**

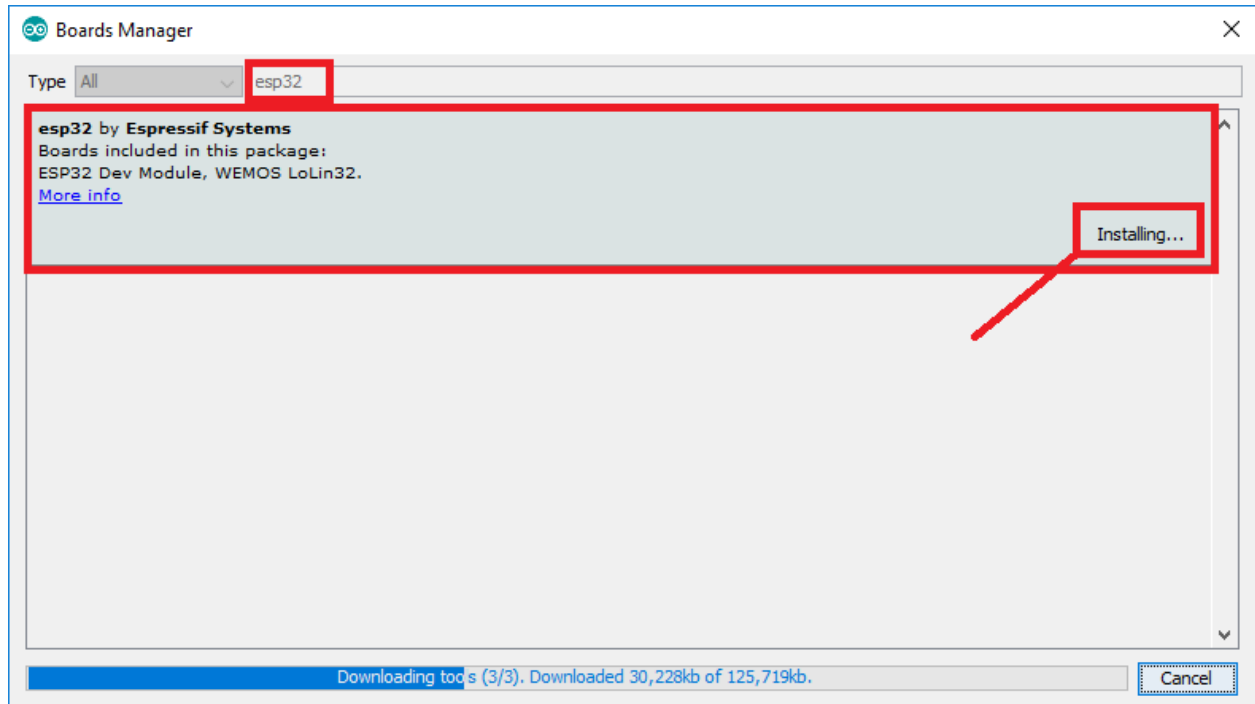


https://dl.espressif.com/dl/package_esp32_index.json

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



Search for **ESP32** and press install button for the “**ESP32 by Espressif Systems**”:



That's it. It should be installed after a few seconds.

Note:

To add the three board preference links you provided to the Arduino IDE, follow these steps:

Open the Arduino IDE.

Go to "File" > "Preferences."

In the "Additional Boards Manager URLs" field, enter the following three URLs, separated by commas:

https://dl.espressif.com/dl/package_esp32_index.json,http://arduino.esp8266.com/stable/package_esp8266com_index.json,https://github.com/stm32duino/BoardManagerFiles/raw/main/package_stm32duino_index.json

Make sure there are no spaces before or after each URL, and be sure to include the "http://" or "https://" part.

Click the "OK" button to save the preferences.

Now, go to "Tools" > "Board" > "Boards Manager."

In the Boards Manager, you can search for and install the board packages associated with the URLs you added.

Search for "esp32" and "esp8266" to install the ESP32 and

ESP8266 boards, and search for "STM32" to install the STM32 boards.

Once you've installed the board packages, you can select the desired board from the "Tools" > "Board" menu.

That's it! You've successfully added and installed the board preference links for ESP32, ESP8266, and STM32 boards in the Arduino IDE.