

## E-Ra WORKSHOP - TOPIC 1

### HƯỚNG DẪN CÀI ĐẶT PHẦN MỀM

#### Cấu hình tối thiểu:

- Windows: 64bit, Windows 7 trở lên
- MacOS: Từ 10.10 trở lên
- Linux: 64bit

#### 1) Cài driver:

- USB CP210x:
  - Windows:  
[https://www.silabs.com/documents/public/software/CP210x\\_Windows\\_Drivers.zip](https://www.silabs.com/documents/public/software/CP210x_Windows_Drivers.zip)
  - MacOS:  
[https://www.silabs.com/documents/public/software/Mac\\_OSX\\_VCP\\_Driver.zip](https://www.silabs.com/documents/public/software/Mac_OSX_VCP_Driver.zip)
- USB STM32: Windows: [en.stsw-link009.zip](#)

#### 2) Arduino IDE

- Windows: <https://downloads.arduino.cc/arduino-1.8.13-windows.zip>
- MacOS:
  - Chip-intel:  
<https://downloads.arduino.cc/arduino-1.8.13-macosx.zip>
  - Chip-apple:  
[https://downloads.arduino.cc/arduino-ide/arduino-ide\\_2.0.3\\_macOS\\_ARM64.dmg](https://downloads.arduino.cc/arduino-ide/arduino-ide_2.0.3_macOS_ARM64.dmg)

- **Linux:** <https://downloads.arduino.cc/arduino-1.8.14-linux64.tar.xz>

● **Hướng dẫn cài đặt:**

B1: Giải nén

B2: Bấm vào khoảng trống trong folder -> Bấm chuột phải -> open

Terminal

B3: sudo sh install.sh

```
sudo sh install.sh
```

● **Cài đặt thư viện pyserial (nếu thiếu)**

```
pip3 install pyserial
```

● **Chưa cấp quyền: (nếu thiếu)**

B1: Open Terminal

B2: echo \$USER ⇔ (username)

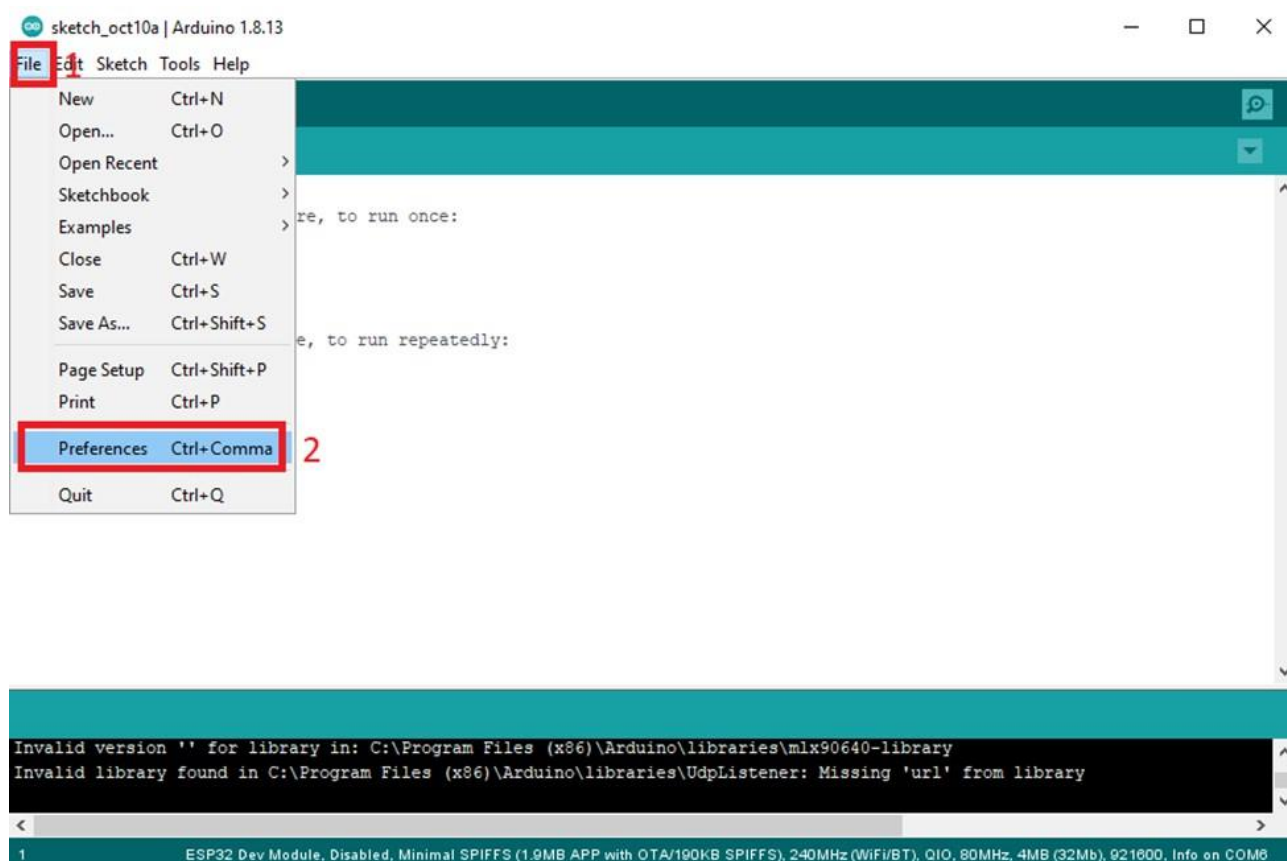
B3: cd /dev

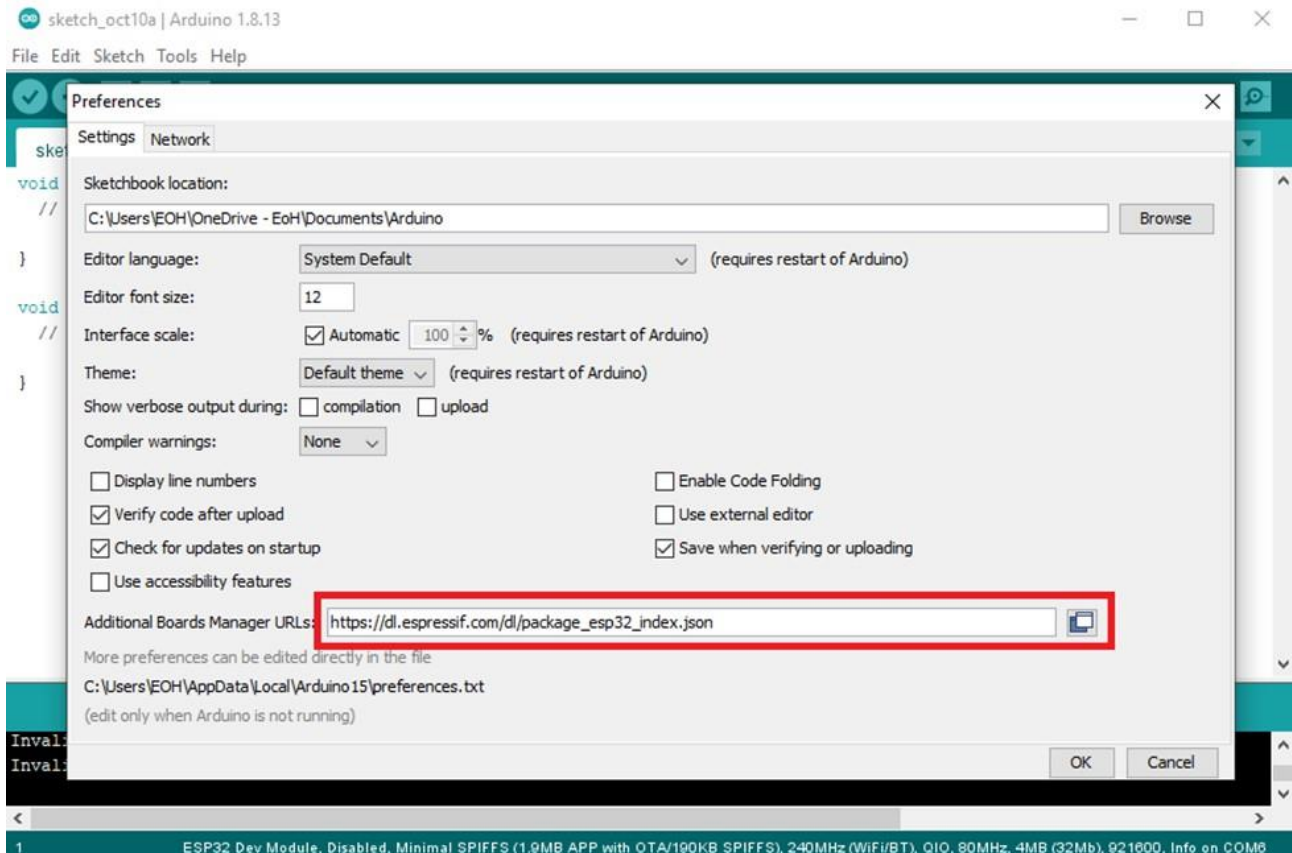
B4: sudo chown username ttyUSB0

```
echo $USER
```

```
PC1
```

### 3) Thêm Boards Manager ESP32 cho Arduino IDE





## BOARD MANAGER URLs THAM KHẢO CHO TỪNG MODULE:

### - **ESP32:**

[https://github.com/espressif/arduino-esp32/raw/gh-pages/package\\_esp32\\_dev\\_index.json](https://github.com/espressif/arduino-esp32/raw/gh-pages/package_esp32_dev_index.json)

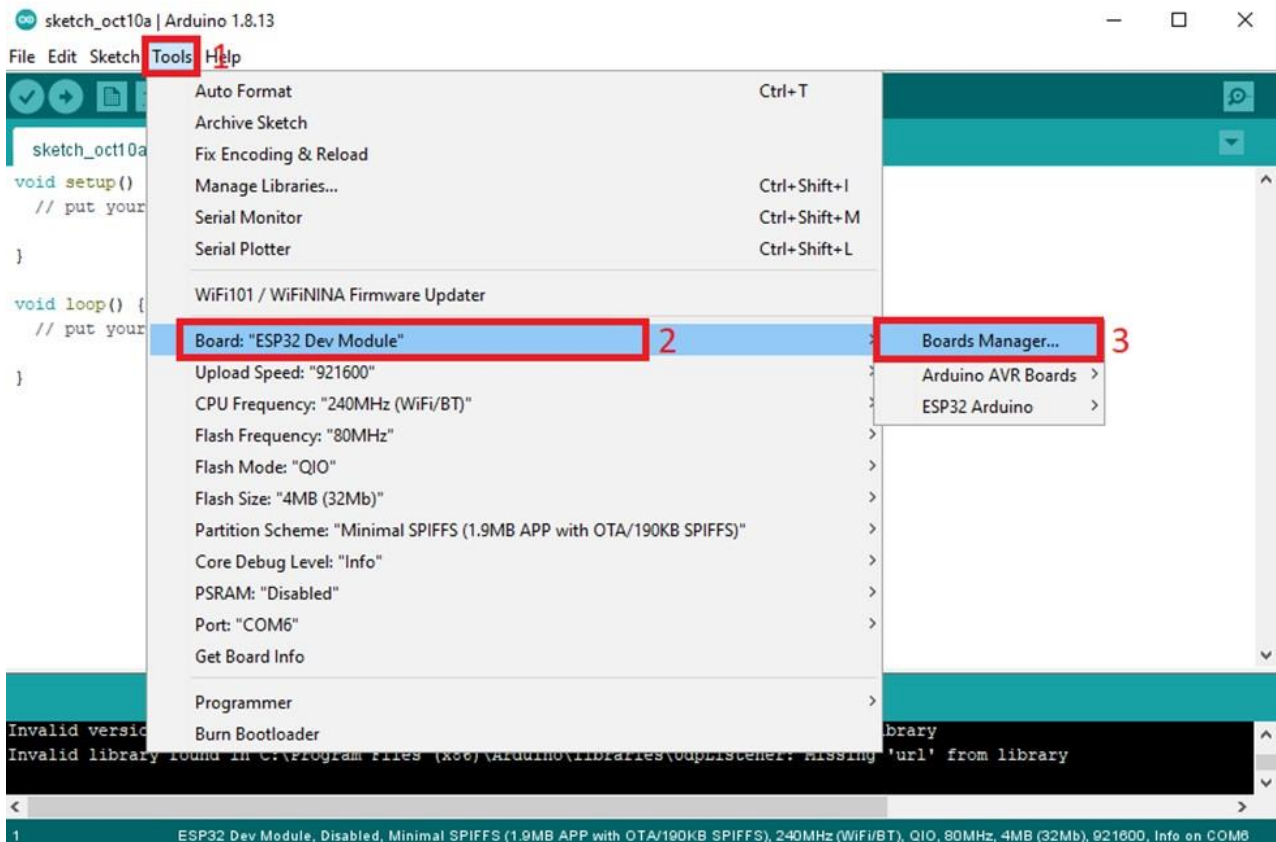
### - **STM32:**

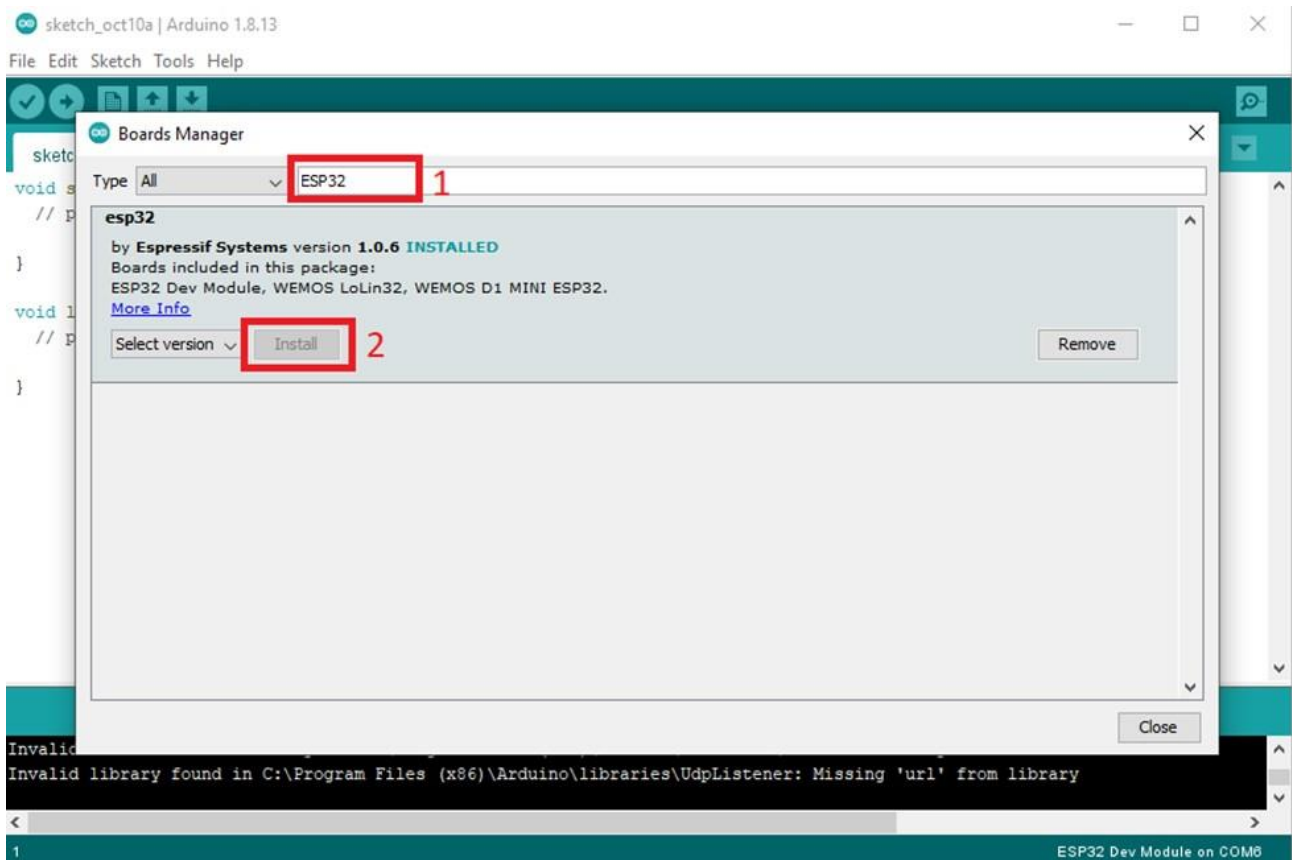
[https://github.com/stm32duino/BoardManagerFiles/raw/main/package\\_stmicroelectronics\\_index.json](https://github.com/stm32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.json)

### - **ESP8266:**

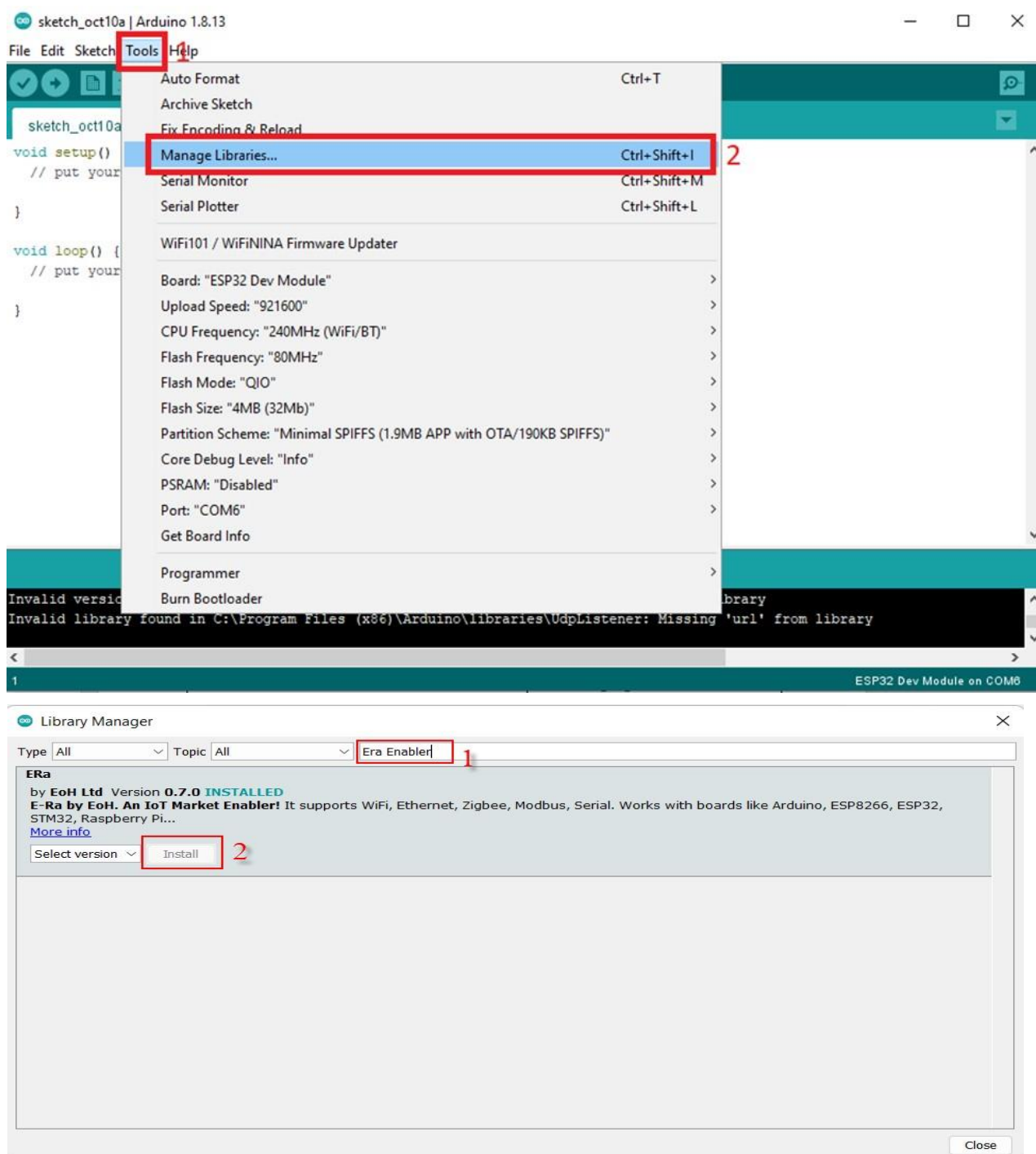
[http://arduino.esp8266.com/stable/package\\_esp8266com\\_index.json](http://arduino.esp8266.com/stable/package_esp8266com_index.json)

- Cài đặt board: (ESP32)





## 4) Thêm thư viện vào Arduino ID



=> Xem chi tiết cài đặt ở: [ESP32, STM32, ESP 8266 - ERa IoT Platform Document \(gitbook.io\)](https://github.com/EOH-Ltd/ESP32-STM32-ESP8266-ERa-IoT-Platform-Documents)