Manuals+ — User Manuals Simplified.

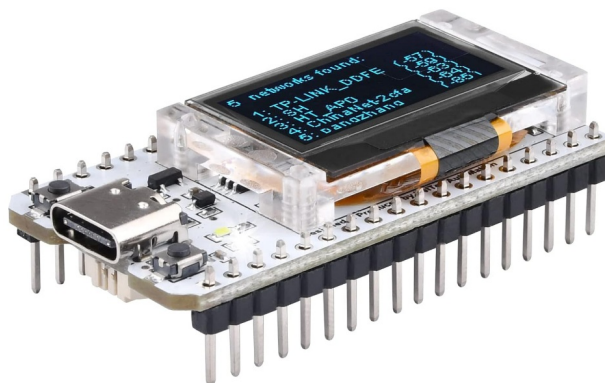# Diymore ESP32 Development Board Wi-Fi Kit Instruction Manual

Contents

Diymore ESP32 Development Board Wi-Fi Kit


PRODUCT INFORMATION

For more details, please go to this link: **https://docs.heltec.org/en/node/esp32/quick_start.html**.

Heltec ESP32+LoRa Series Quick Start

Before all operation, please confirm whether the USB driver, Git, and Arduino IDE has been installed correctly. If not, please refer to these two articles to establish a serial connection and Install Git and Arduino IDE. The Heltec ESP32 development environment already contains the basic code.

For the special codes related to the Heltec ESP32 development board, please refer to:
https://github.com/Heltec-AaronLee/WiFi_Kit_series/tree/master/esp32/libraries/Heltec-Example.
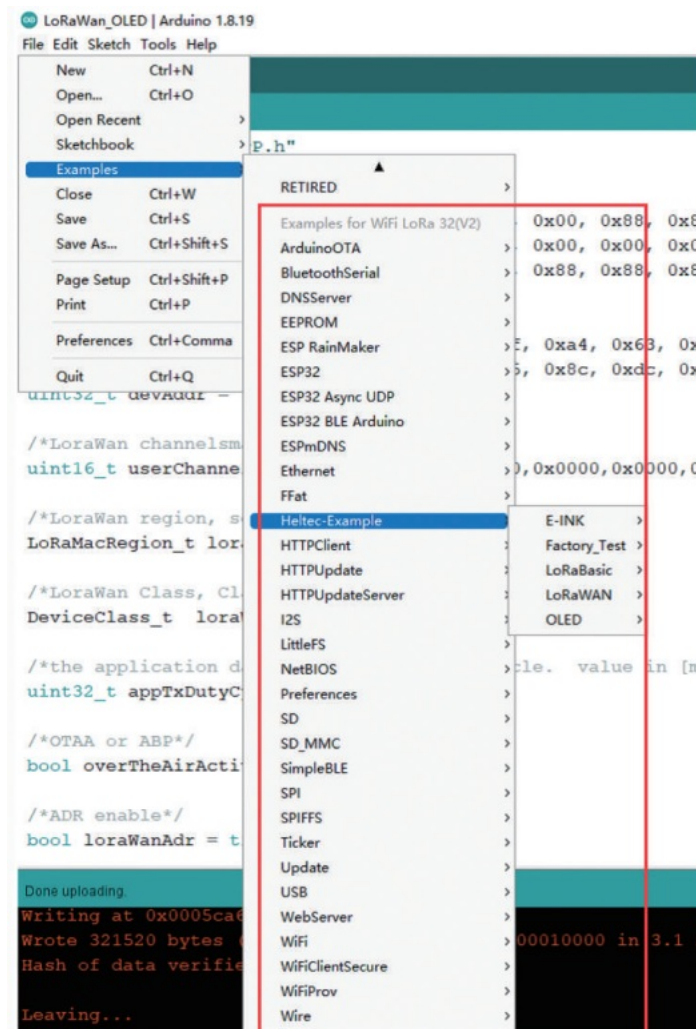
There are three methods to install the development framework, choose one of them:

- Via Arduino Board Manager
- Via Git
- Via Local File

Tip
When we updated the V3 series development environment, we integrated the sample code and added it to the development environment without additional downloading libraries. We have handled the compatibility of the sample code so that the code can be used for various versions of the ESP32 development board. When you use the new development environment, the old version of the library can no longer be used, such as ESP32_ LoRaWAN, and Heltec_ ESP32. When you update the development environment, we recommend that you delete the old development environment, download the new development environment, and delete the old version of the library. Git, it has been updated to the V3 series development environment on September 19, 2022. For "Arduino Boards Manager", VO.0.7 is the V3 series development environment. If you modify a lot of code in the old development environment and use it in the project, we recommend that you still use the old development

environment.

Tip

The ESP32 chip was replaced in the V3 version of the ESP32 series product. If you install the old environment through Git and get updates through "git pull", you need to execute 'get.exe "under the" WiFi_Kit _series\esp32\tools "path again to download the latest compilation chain.

Via Arduino Board Manager

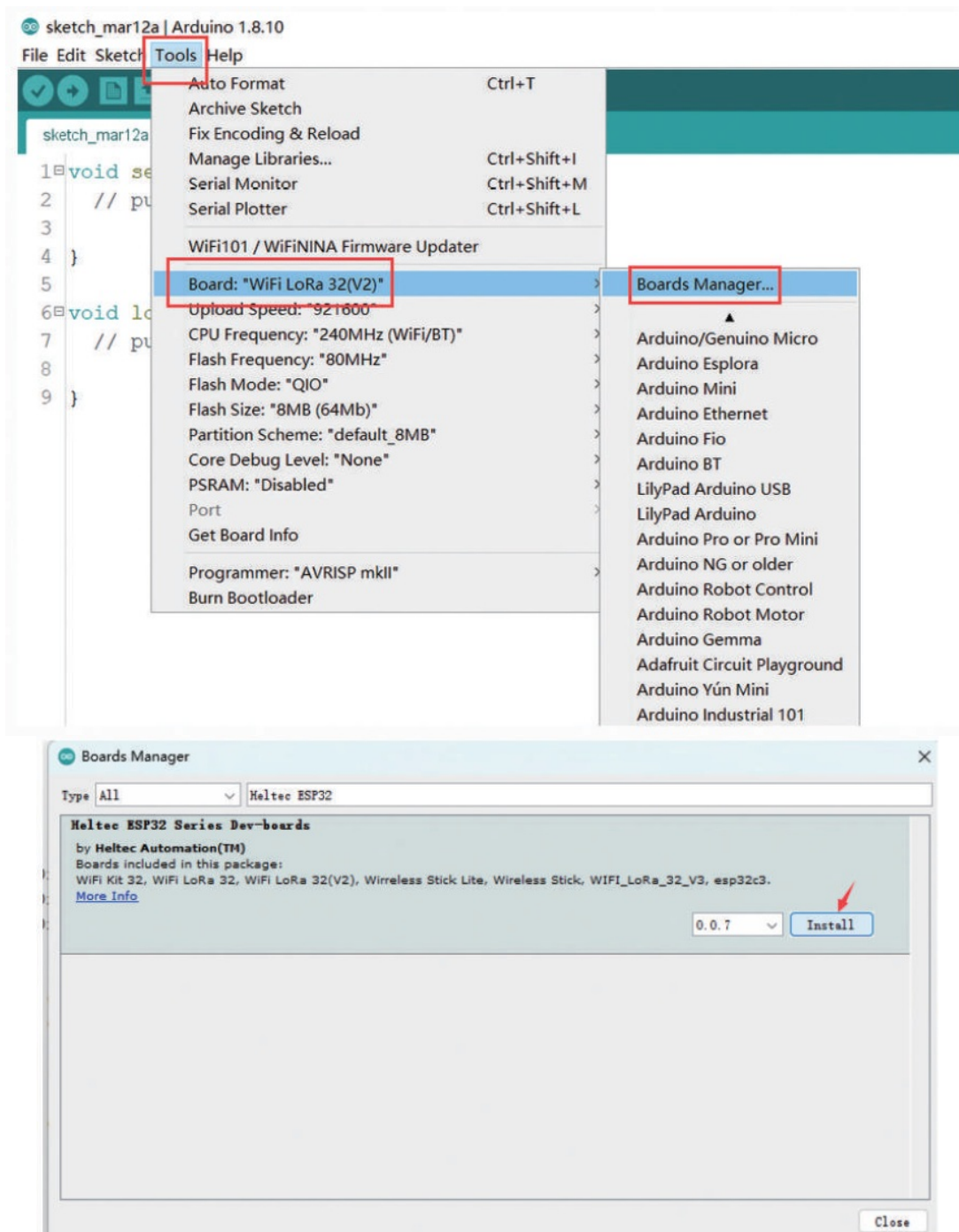- Step 1. Download Arduino-ESP32 Support

  Open Arduino IDE, and click File -> Preferences.
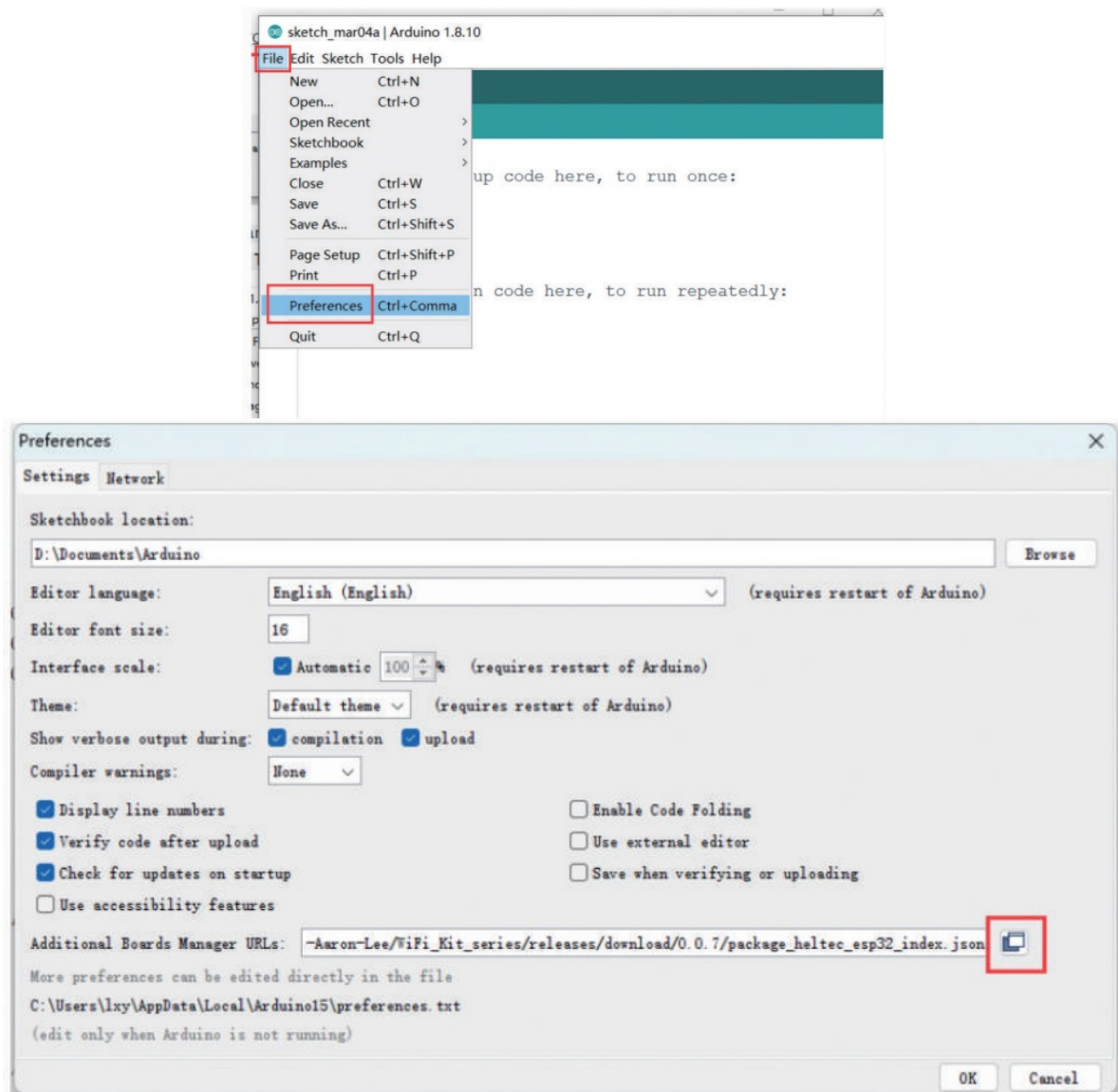
Input the last ESP32 package URL: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/releases/download/0.0.7/package_heltec_esp32_index.json

Click Tools –> Board –> Boards Manager…, search Heltec ESP32 in the new pop-up dialog, then select the latest version and click install

The source code of Heltec ESP series (ESP32 & ESP8266) framework available here: **https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series**

Via Git

After obtaining updates through "git pull", please execute "get. exe" under the path of "Arduino\hardware\WiFi_Kit_series\esp32\tools" to obtain the latest compilation tool.
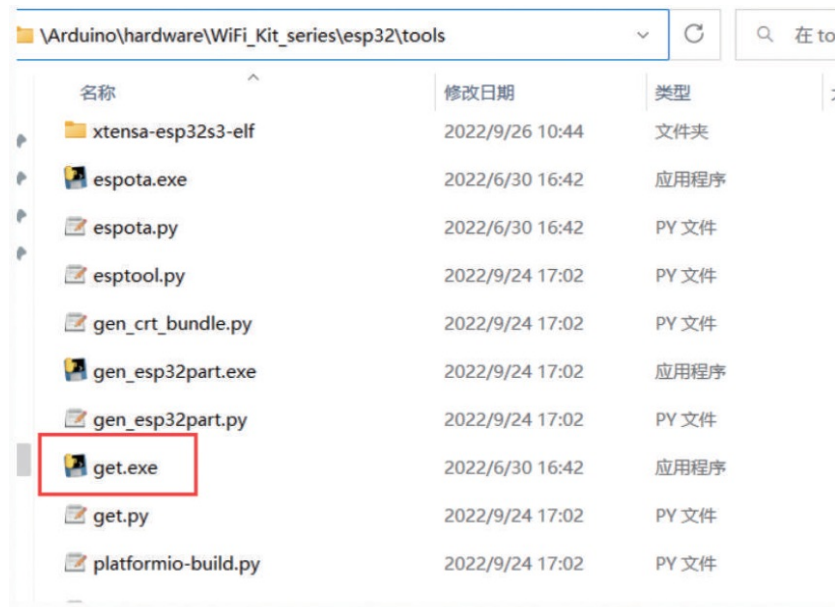
- **For Windows: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/blob/master/InstallGuide/windows.md**
- **For MacOS: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/blob/master/InstallGuide/mac.md**
- **For Linux**
  - **Debian/Ubuntu: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/blob/master/InstallGuide/debian_ubuntu.md**
  - **Fedora: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/blob/master/InstallGuide/fedora.md**
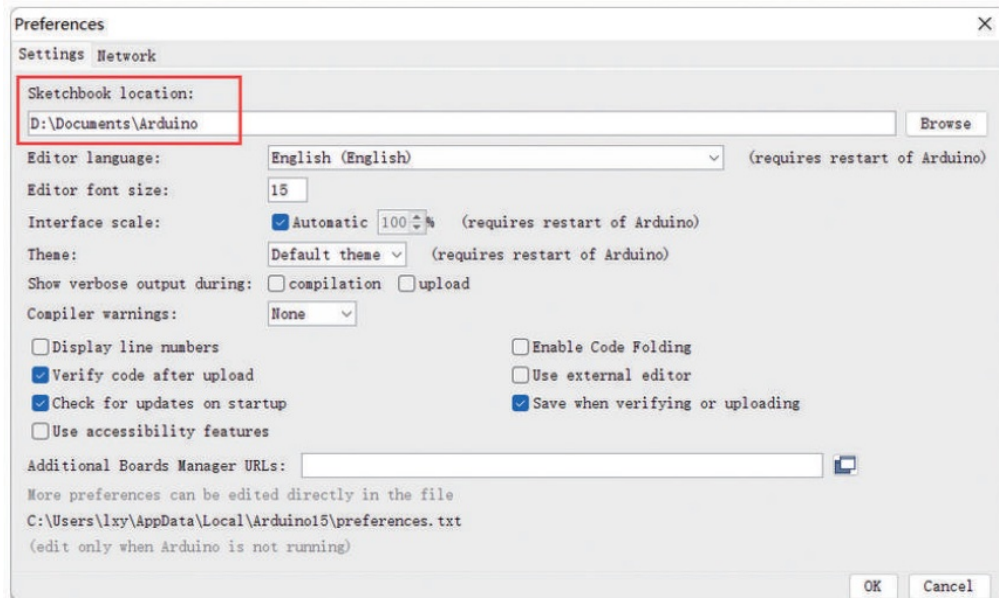 - **OpenSUSE: https://github.com/Heltec-Aaron-Lee/WiFi_Kit_series/blob/master/InstallGuide/opensuse.md**

Via Local File

Download the development environment. **https://resource.heltec.cn/download/tools/WiFi_Kit_series.zip**
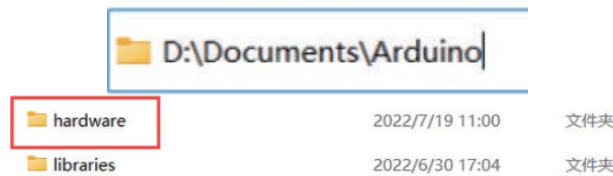
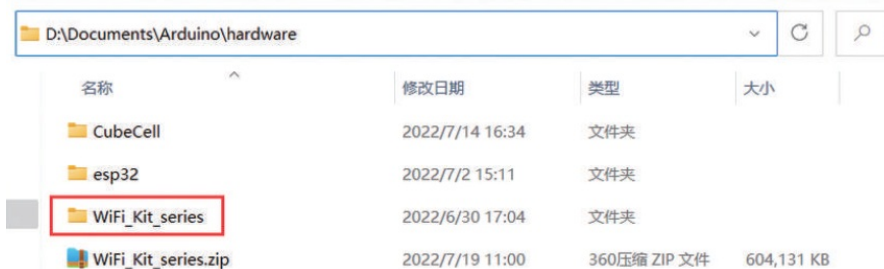1. Open Arduino IDE, and click File -> Preferences
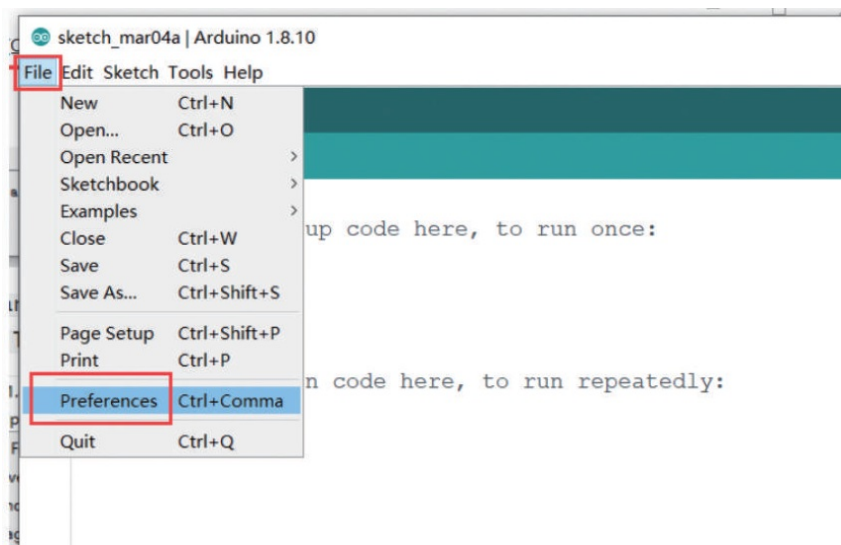
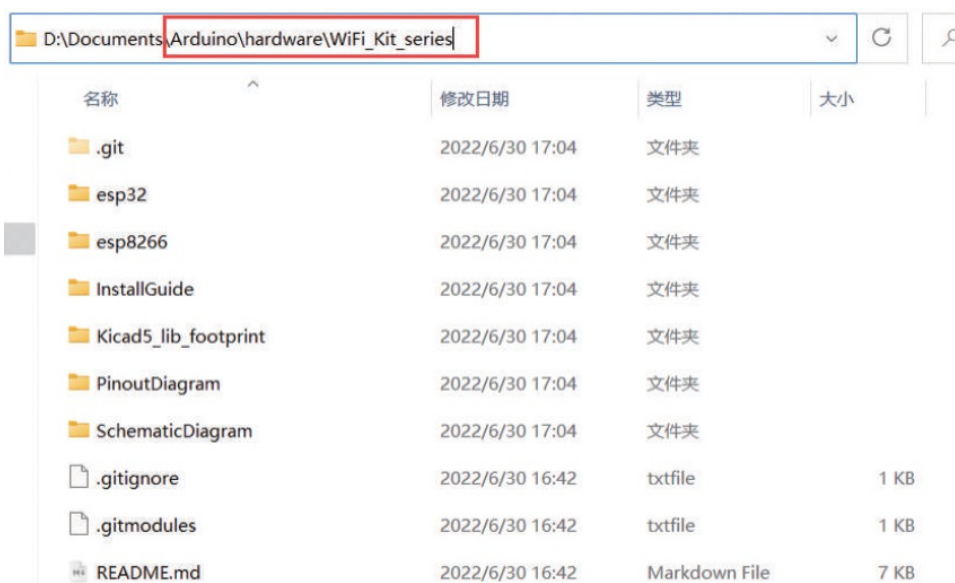
2. Go to the folder in the red box.

3. Create a new "hardware" folder in the Arduino folder. If there is already a "hardware" folder, you don't need to create a new one.
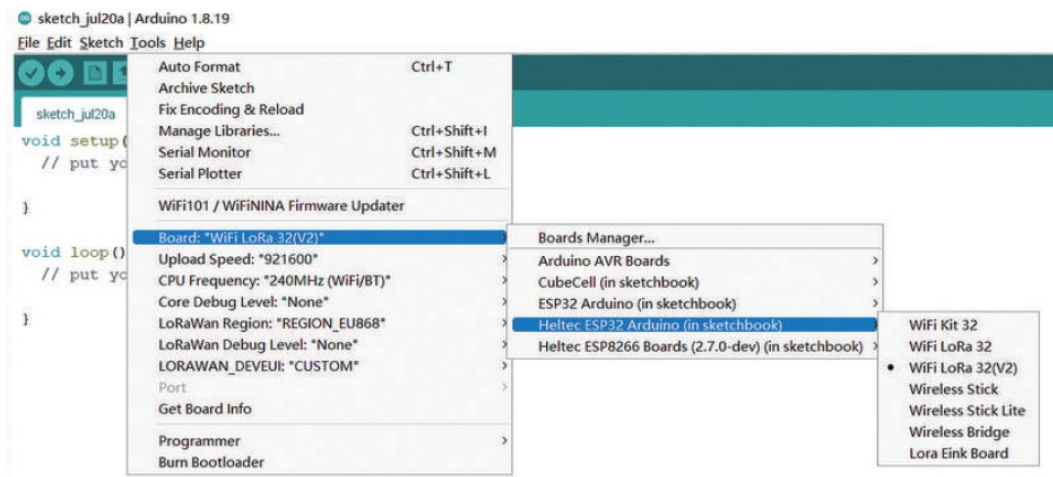

4. Go to the "hardware" folder and extract the "WiFi Kit series" into this folder.

5. Go to the "WiFi_Kit series" folder, and refer to the figure below to confirm whether the path in the red box is correct.

6. Restart the Arduino IDE to confirm whether the development environment is installed successfully.
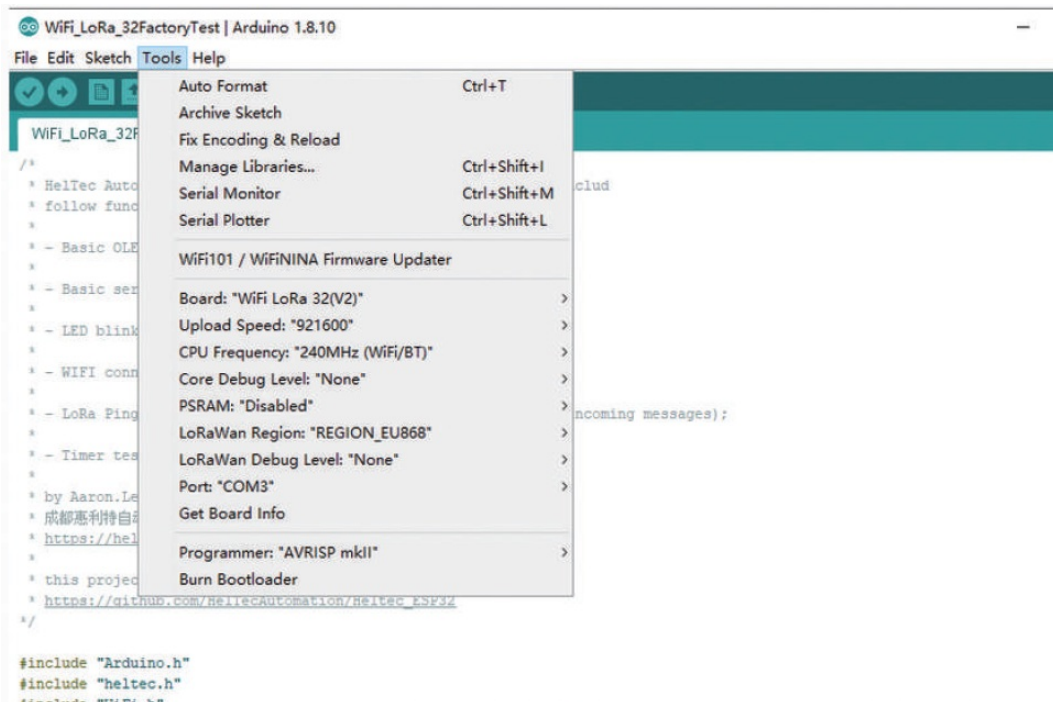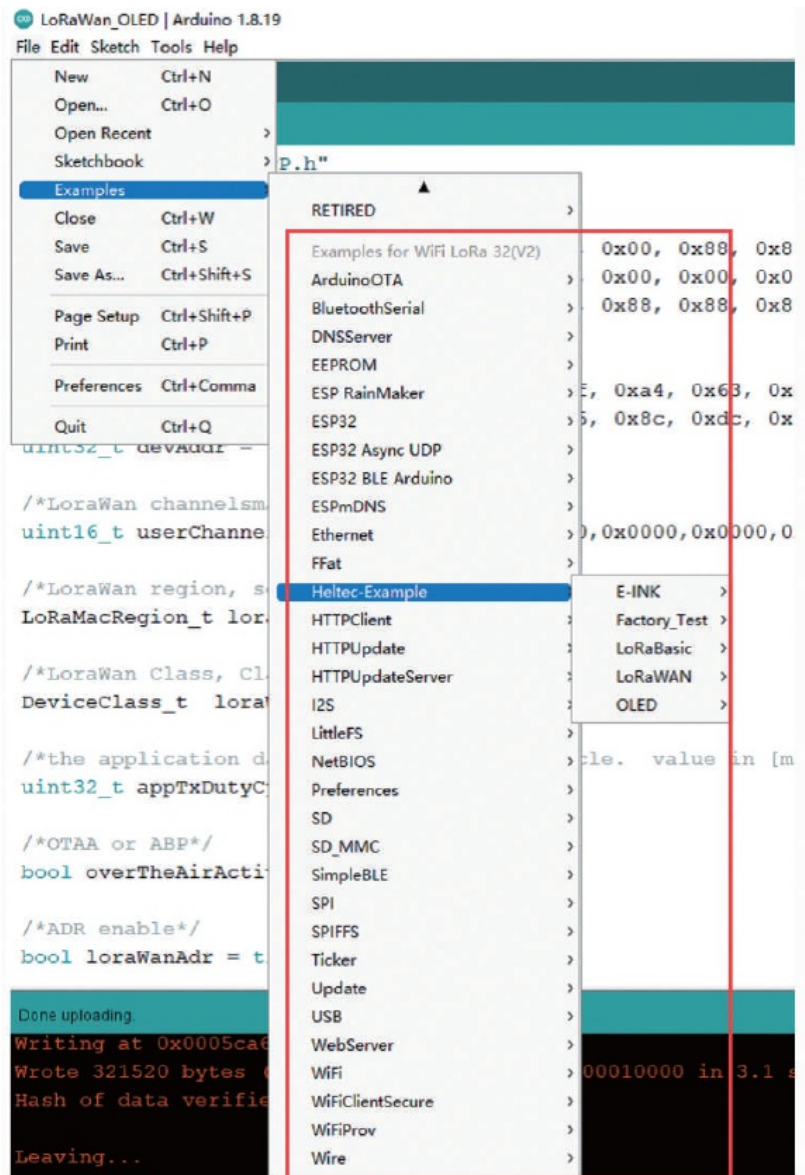
Example

This section is for verifying whether you can program with Arduino or not. Now, The USB cable connects to the Heltec ESP32 board, then select your serial port which is connected to the Heltec ESP32 board. Select a demo example, compile and upload it.

Execute an example

Correctly select a board and relevant options in the Tools menu:

Then select an example.

Compile & Upload

New Heltec ESP32 program

Open Arduino IDE, create a new in file and then copy the below code.

```
#include <heltec.h>

// the setup routine runs once when starts up
void setup(){

  // Initialize the Heltec ESP32 object
  Heltec.begin(true /*DisplayEnable Enable*/, true /*LoRa Disable*/, true /*Serial Enable*/, true /*PA
}

// the loop routine runs over and over again forever
void loop() {

}
```

Compile it and upload, the screen (if this board has a screen) will show and Arduino's serial monitor will print something, which means the Heltec ESP32 board is running successfully!
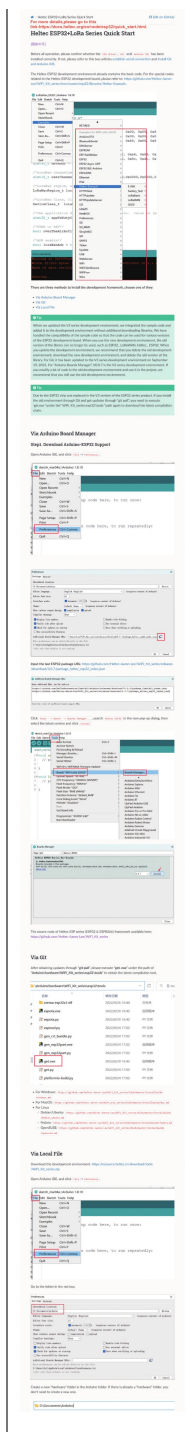
Documents / Resources

[**Diymore ESP32 Development Board Wi-Fi Kit**](#) [pdf] Instruction Manual
ESP32 Development Board Wi-Fi Kit, ESP32, Development Board Wi-Fi Kit, Board Wi-Fi Kit, Kit

References

- [**User Manual**](#)