

# BEETLE ESP32 DFR0575

## 1. Setup



**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 [Get](#)

**Linux** 32 bits  
**Linux** 64 bits  
**Linux** ARM 32 bits  
**Linux** ARM 64 bits

**Mac OS X** 10.10 or newer

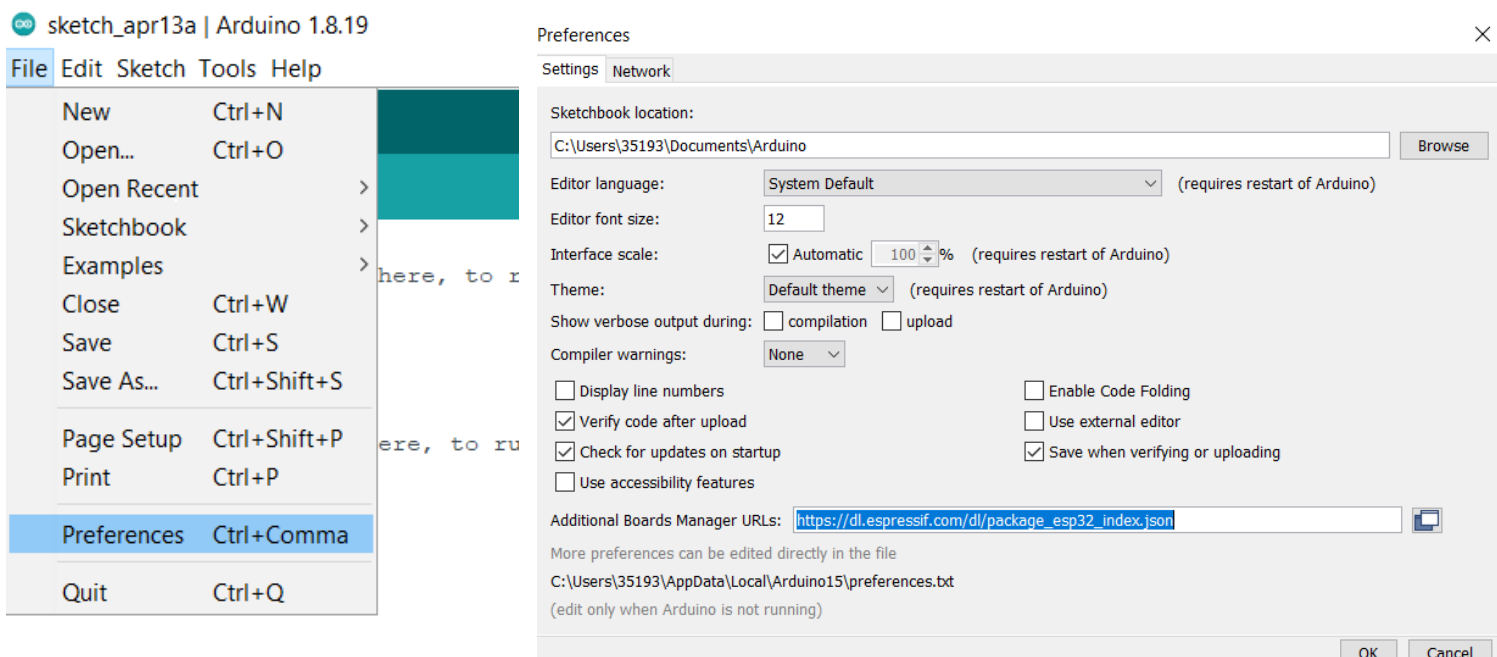
[Release Notes](#)  
[Checksums \(sha512\)](#)

Using Arduino IDE is a more user-friendly approach.

## 2. Adding the Board URL to Arduino IDE

Open Arduino IDE (version 1.8.19).

Navigate to File > Preferences and click the checked button as shown below:



sketch\_apr13a | Arduino 1.8.19

File Edit Sketch Tools Help

New Ctrl+N  
Open... Ctrl+O  
Open Recent >  
Sketchbook >  
Examples >  
Close Ctrl+W  
Save Ctrl+S  
Save As... Ctrl+Shift+S  
Page Setup Ctrl+Shift+P  
Print Ctrl+P  
Preferences Ctrl+Comma  
Quit Ctrl+Q

Preferences

Settings Network

Sketchbook location: C:\Users\35193\Documents\Arduino [Browse](#)

Editor language: System Default (requires restart of Arduino)

Editor font size: 12

Interface scale: ☒ Automatic 100% (requires restart of Arduino)

Theme: Default theme (requires restart of Arduino)

Show verbose output during: ☐ compilation ☐ upload

Compiler warnings: None

☐ Display line numbers ☐ Enable Code Folding  
☒ Verify code after upload ☐ Use external editor  
☒ Check for updates on startup ☒ Save when verifying or uploading  
☐ Use accessibility features

Additional Boards Manager URLs: [https://dl.espressif.com/dl/package\\_esp32\\_index.json](https://dl.espressif.com/dl/package_esp32_index.json)

More preferences can be edited directly in the file  
C:\Users\35193\AppData\Local\Arduino15\preferences.txt  
(edit only when Arduino is not running)

OK Cancel

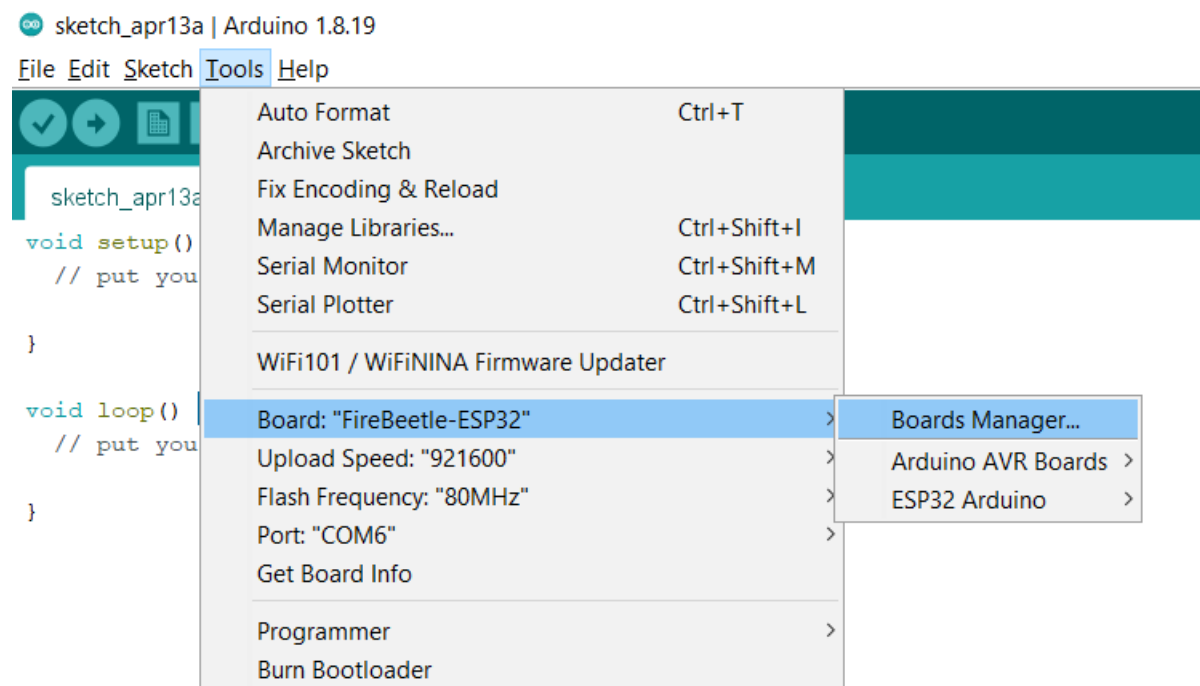
Enter the following URL in Additional Boards Manager URLs.

[https://dl.espressif.com/dl/package\\_esp32\\_index.json](https://dl.espressif.com/dl/package_esp32_index.json)

After the input is completed, click OK.

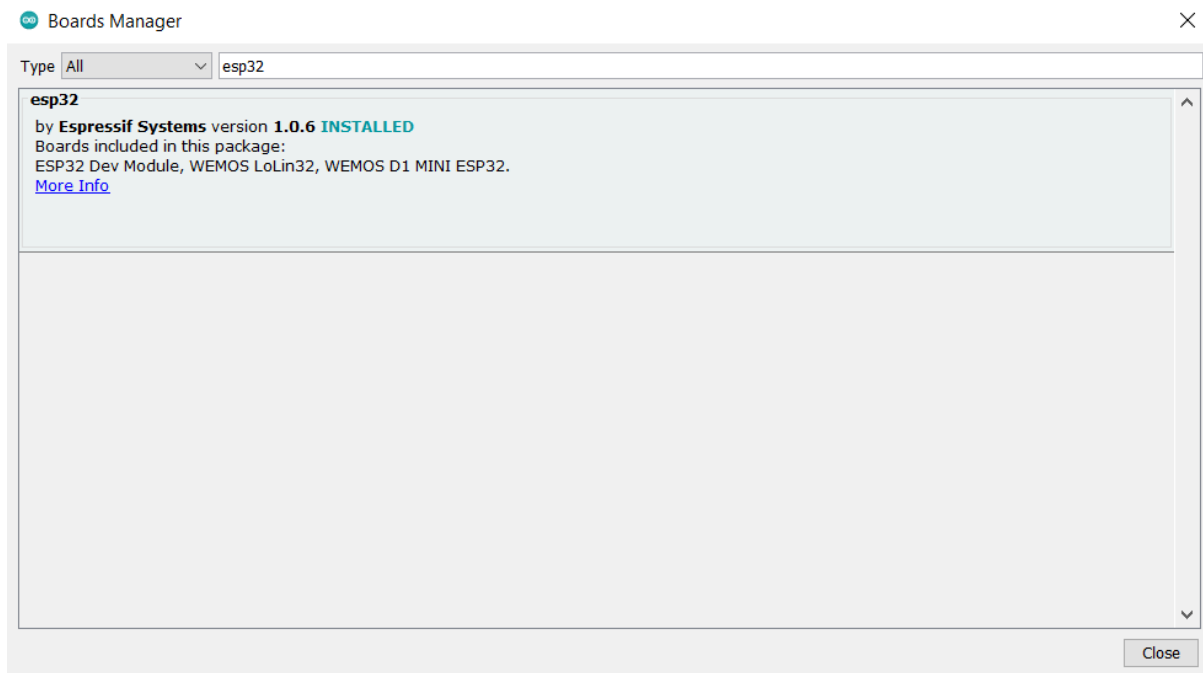
### 3. Installing ESP32

After adding the mainboard URL of [ESP32](#) (ESP-WROOM-32) to Arduino IDE, it is needed to update the board list, and use [Arduino](#) IDE to download ESP32 (ESP-WROOM-32) libraries.



After opening the development board manager, the board list will automatically be updated.

When the update is finished type esp32, select it and click "Install". The manager will automatically download the relevant libraries.



#### 4. Selecting the mainboard

Open **tools-> board**, select **FireBeetle-ESP32** mainboard, as shown in the following:

