# Arduino Board Managers Tutorial

## Install Arduino-ESP32 board

The Arduino IDE board manager is used to record the configuration information of the development board and the tool chain used in the development process, refer to this tutorial to install the ESP32 board.

Using [Install Online](#_Install_Online) is relatively simple and can be installed with just one click. In some areas, if you are unable to download normally due to network factors, you can try to switch to the mobile network or click Configure proxy in the preferences menu, or select [Install Offline](#_Install_Offline).

### Install Online

The following is an example of installing **ESP32-3.0.2**, if you install other boards or version numbers, the operation steps are similar.

* The board management URL is used to index the development board information of a specified platform. Select**File** -->**Preferences** from the Arduino IDE menu bar
* Add the corresponding board management link, click the button
* In the first blank space, add the following

https://espressif.github.io/arduino-esp32/package\_esp32\_index.json

* Save settings
* Install development board

①. Select BOARDS MANAGER in the sidebar;

②. Enter the name of the board you want to install ESP32 in the search box;

③. Select Version Number in the box;

④. Click INSTALL.

* Wait for download
* Arduino-esp32 download completed

### Install Offline

* Click on the ESP32 offline package in Google Drive, you can choose the required version to download according to the board installation requirements, and the rest of the versions can be downloaded by yourself on demand.
  + [ESP32\_Arduino offline package](https://drive.google.com/drive/folders/1Pcs_A4FKWvdSHnz9lEBYqOpr-noTMbIv?usp=sharing)
* Unzip the provided development board package
* Place the extraction file in the Arduino package directory of the corresponding user

C:\Users\{username}\AppData\Local\Arduino15\packages\

Take the username Waveshare as an example

C:\Users\waveshare\AppData\Local\Arduino15\packages\

* Close all arduino windows to make sure Arduino is turned off
* Open Arduino, then open the board manager, you can see that esp32-arduino has been installed

If there is an esp32 folder in this path, it is recommended to save it and delete the original esp32 folder in this path, so that you can use the newly generated esp32 folder in the offline package normally

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