

Algorithm for ESP32 in Arduino IDE

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to install the Arduino IDE

1. In your Arduino IDE go to File> Preferences
2. write down this link https://dl.espressif.com/dl/package_esp32_index.json Into the "Additional Board Manager URLs" Field and then click "OK"
3. Open the Boards Manager and then Go to Tools > Board > Boards Manager
4. Search for ESP32 and Press Install Button for the "ESP32 by Espressif Systems"
5. Go to esp32 > tools folder and execute get.exe to compile ESP32 code, you need the Xtensa GNU compiler (GCC) suite installed on your machine.
6. This download the Xtensa GNU Tools and ESP32 SDK, and then unzip it to the appropriate location.
7. The D2 pin of the board is connected to the blue LED on the board
8. Open the Arduino IDE and select the ESP32 Dev Module option under Arduino IDE > Tools > Board menu.
9. connect the ESP32 development board to the computer via micro-B USB cable. Once the board is connected, the communication or COM port must be set. On Windows machines, this will be like COM#, select this serial port under Arduino IDE > Tools > Port menu.