


## Getting Start ESP32: ESP32 GPIO + ESP32 Interface

### Mission 1/12 -- Arduino IDE 2.3.4 Install + Blink Test

1. Read <https://www.cybertice.com/p/5089>
2. Read <https://support.arduino.cc/hc/en-us/articles/360019833020-Download-and-install-Arduino-IDE>
3. Download “[arduino-2.3.4-windows.exe](#)”(@20241224) and Install

### Downloads

**Arduino IDE 2.3.4**

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

**DOWNLOAD OPTIONS**

**Windows** Win 10 and newer, 64 bits

**Windows** MSI installer

**Windows** ZIP file

**Linux** AppImage 64 bits (X86-64)

**Linux** ZIP file 64 bits (X86-64)

**macOS** Intel, 10.15+ "Catalina" or newer, 64 bits

**macOS** Apple Silicon, 11: "Big Sur" or newer, 64 bits

### Download Arduino IDE & support its progress

Since the 1.x release in March 2015, the Arduino IDE has been downloaded **78,130,138** times — impressive! Help its development with a donation.

\$3

**\$5**

\$10

\$25

\$50

Other

**CONTRIBUTE AND DOWNLOAD**

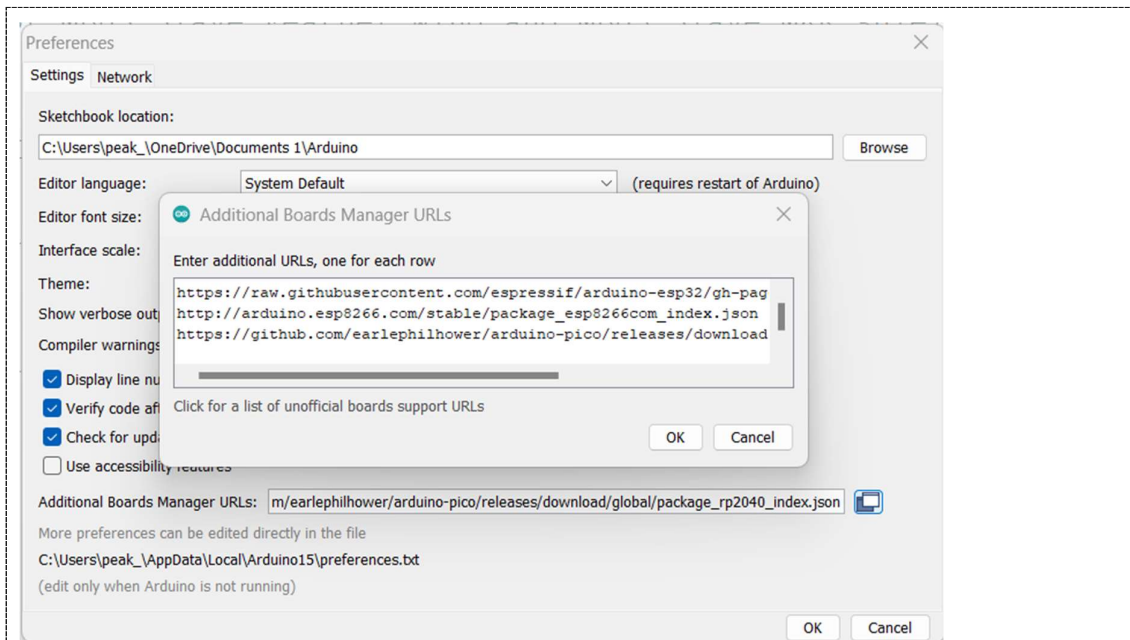
or

**JUST DOWNLOAD**

Windows, Linux or Mac

Just Download

4. Add ESP32 Board URLs: File → Preference → <Add 3 Line > → Ok → Ok



Additional Boards Manager URLs:

[https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package\\_esp32\\_index.json](https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json)

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

[https://github.com/earlephilhower/arduino-pico/releases/download/global/package\\_rp2040\\_index.json](https://github.com/earlephilhower/arduino-pico/releases/download/global/package_rp2040_index.json)

5. Add ESP32 Board: Tools → Boards → Board Manager



Boards Manager

Type: All ESP32

**Arduino ESP32 Boards**  
by **Arduino**  
Boards included in this package:  
Arduino Nano ESP32.  
[More Info](#)

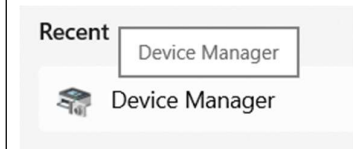
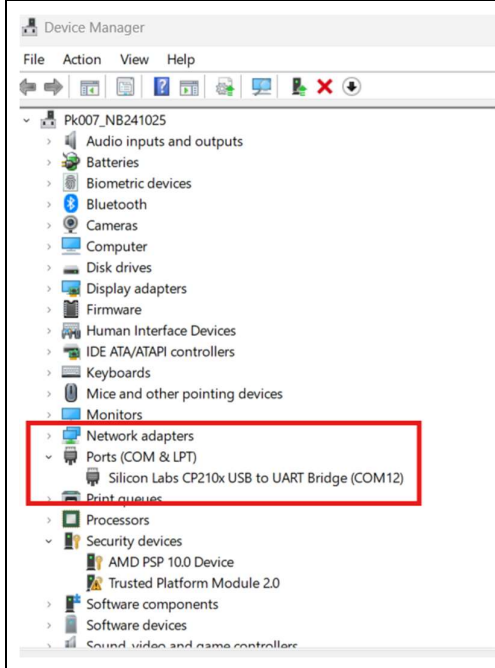
**esp32**  
by **Espressif Systems**  
Boards included in this package:  
ESP32 Dev Board, ESP32-S2 Dev Board, ESP32-S3 Dev Board, ESP32-C3 Dev Board, Arduino Nano ESP32.  
[More Info](#)

2.0.14 Install

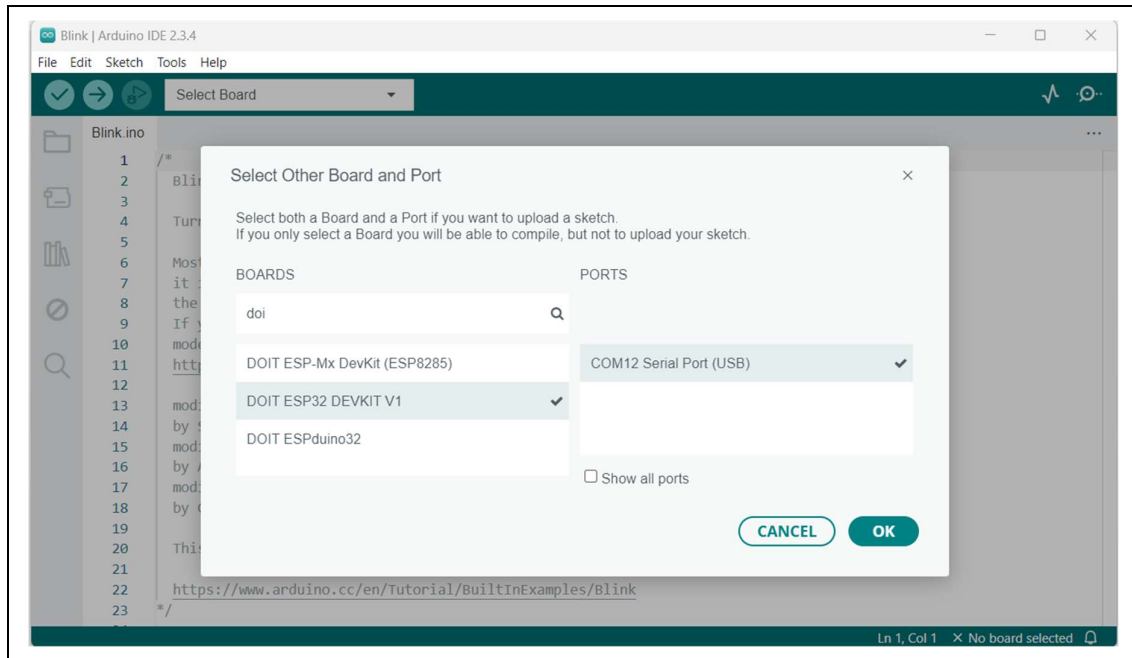
Filter = esp32

Select → esp32 by Espressif System → Version 2.0.14 → Install

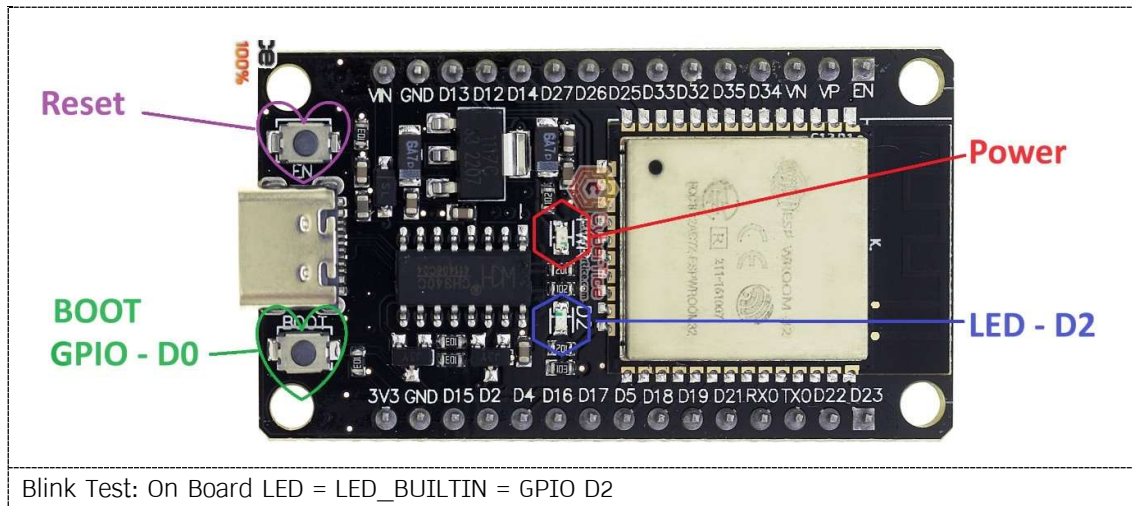
6. Read <https://www.allnewstep.com/b/144>
7. Connect ESP32 Board to PC
8. Check Comm Port

<p>Search – Device Manager</p> 	<p>CP2102 Driver &gt;&gt; <a href="https://www.silabs.com/interface/usb-bridges/classic/device.cp2102?tab=specs">https://www.silabs.com/interface/usb-bridges/classic/device.cp2102?tab=specs</a></p>
<p>ESP32 at COM 12</p>	
	

9. Blink Test Code: File → Example → 01.Basic → Blink
10. Select Serial Port: Tools → Port → Com X
11. Select Target Board: Tools → Boards → ESP32 Arduino → DOIT ESP32 DEVKIT V1

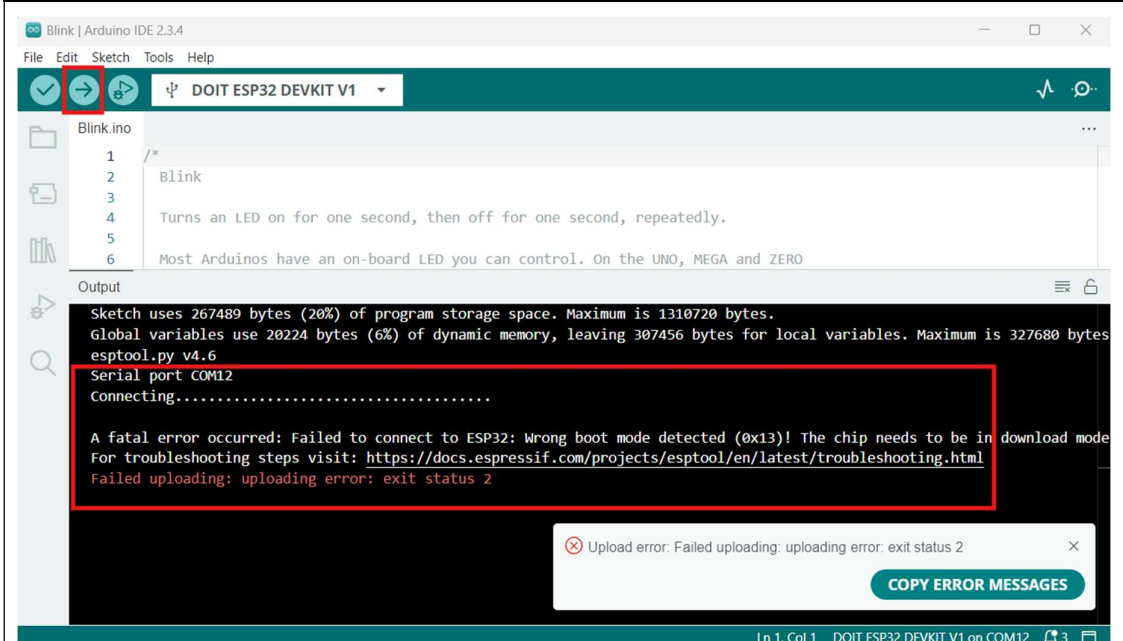


12. Upload Code to Target Board: Sketch → Upload
13. ESP32 Pinout Reference <https://randomnerdtutorials.com/esp32-pinout-reference-gpios/>



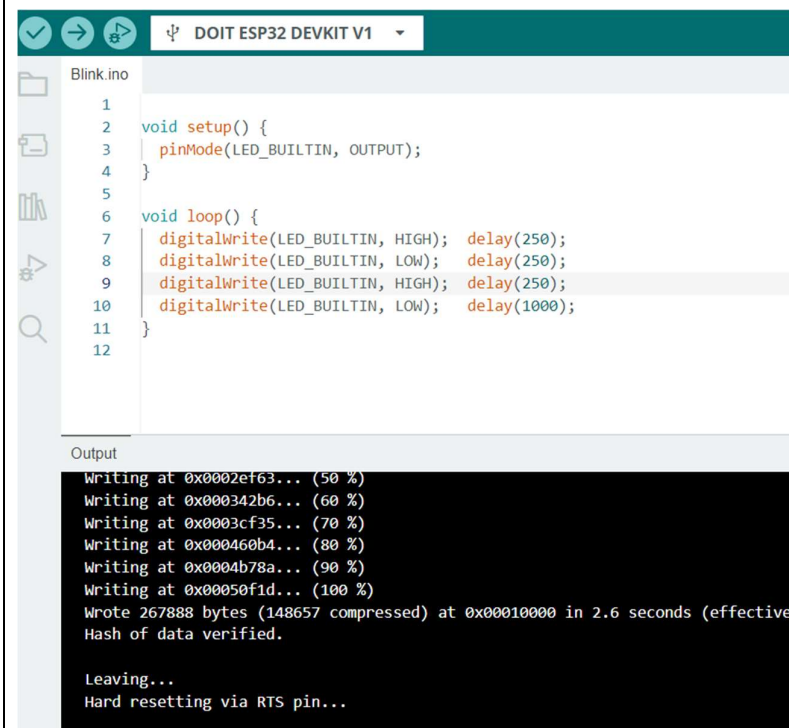
Note:

1. สามารถกด ➡ เพื่อ Upload Code ได้



2. อาจเกิด Upload Error – แก้ไขโดยการกดปุ่ม BOOT ค้างไว้แล้วกด Upload รอจนเริ่มการ Upload ค่อยปล่อยปุ่ม BOOT

3. ลองเปลี่ยนโค้ดเป็นดังรูป แล้ว Upload



## ESP32 DEV-KIT V1 - PINOUT DIAGRAM

