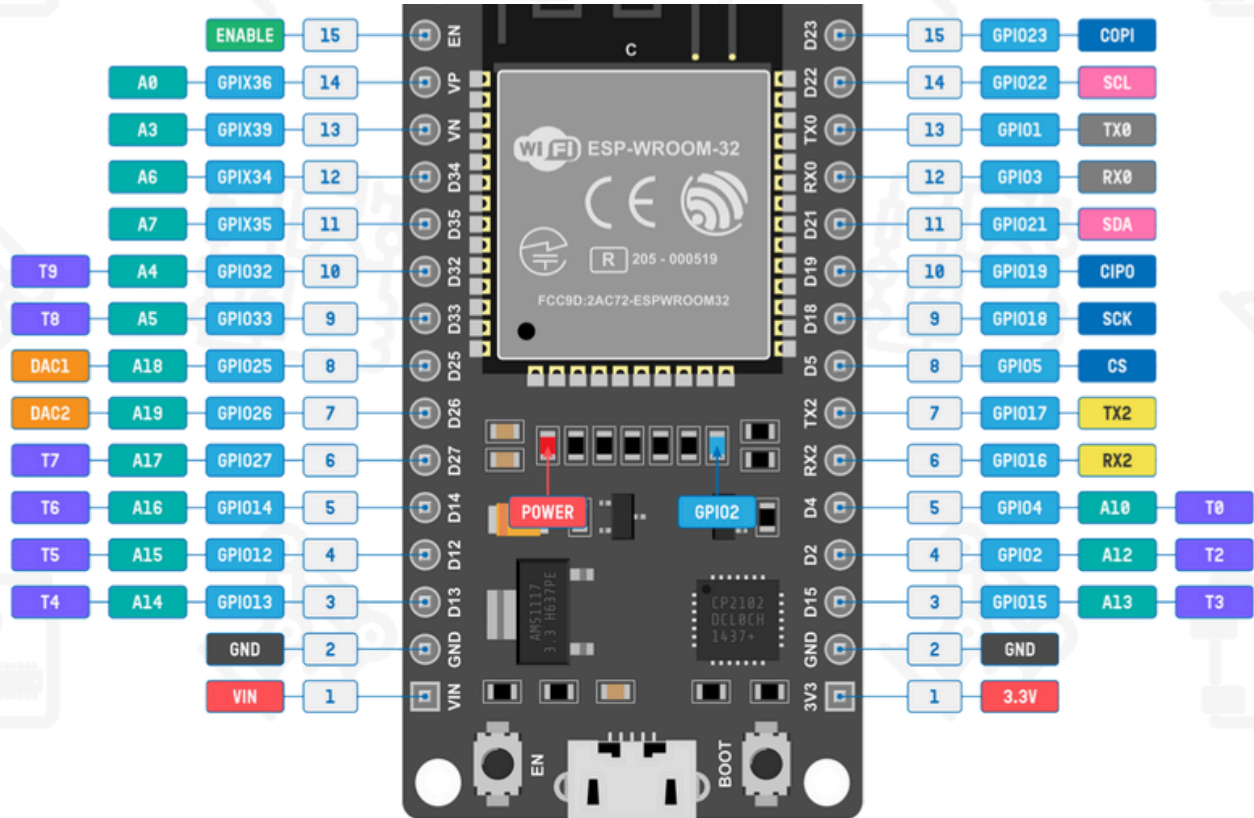


ESP32

What is ESP32?

- **ESP32** is an open source prototyping platform with many different variations of microcontrollers available to build devices.
- Can be programmed using the **Arduino IDE** in **C++** but requires you to install it as a third party board. Or can be programmed in **VScode** with the **platform IO** extension.
- Has a 240Mhz, 32-bit processor and 3.3V logic voltage.
- Supports 2.4Ghz WiFi and Bluetooth/BLE
- There are many variants of the ESP32 board but we are using the ESP32 DevKit V1

ESP32 DevKit V1 Pinout



Programming ESP32s:

- Details on what **IDEs** to use for **ESP32** can be found here, this tutorial uses the **arduino IDE** but programming the **ESP32** is not limited to that: <https://lastminuteengineers.com/esp32-arduino-ide-tutorial/>
- The way you write code for an **ESP32** is similar to an **Arduino**, but some libraries aren't compatible, so you have to use **ESP32** specific libraries instead and the Physical microcontroller pins don't always align with GPIO Pin numbers like the **Arduino** does.
- Remember, you can find many great coding tutorials by **googling** your problem or goal.

If you're curious about programming the **ESP32** in **VScode** you can follow this tutorial: <https://randomnerdtutorials.com/vs-code-platformio-ide-esp32-esp8266-arduino/>



ESP32
Documentation

