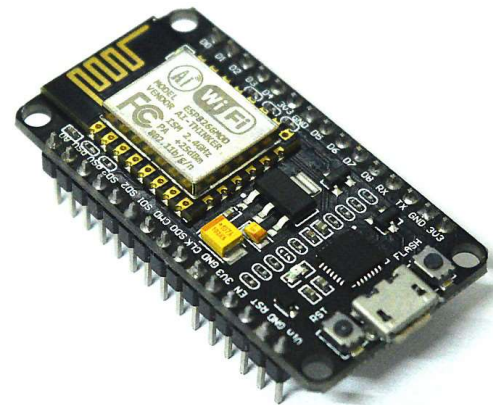


## NodeMCU ESP8266 ESP-12E WiFi Development Board

NodeMCU is an open source IoT platform. It includes firmware which runs on the ESP8266 Wi-Fi SoC from Espressif Systems, and hardware which is based on the ESP-12 module. The term "NodeMCU" by default refers to the firmware rather than the DevKit. The firmware uses the Lua scripting language. It is based on the eLua project, and built on the Espressif Non-OS SDK for ESP8266. It uses many open source projects, such as lua-cjson, and spiffs.

### Features

- ▶ Version : DevKit v1.0
- ▶ Breadboard Friendly
- ▶ Light Weight and small size.
- ▶ 3.3V operated, can be USB powered.
- ▶ Uses wireless protocol 802.11b/g/n.
- ▶ Built-in wireless connectivity capabilities.
- ▶ Built-in PCB antenna on the ESP-12E chip.
- ▶ Capable of PWM, I2C, SPI, UART, 1-wire, 1 analog pin.
- ▶ Uses CP2102 USB Serial Communication interface module.
- ▶ Arduino IDE compatible (extension board manager required).
- ▶ Supports Lua (alike node.js) and Arduino C programming language.



Wireless Connectivity



Breadboard Friendly



USB Compatible



Lightweight



Arduino IDE Compatible

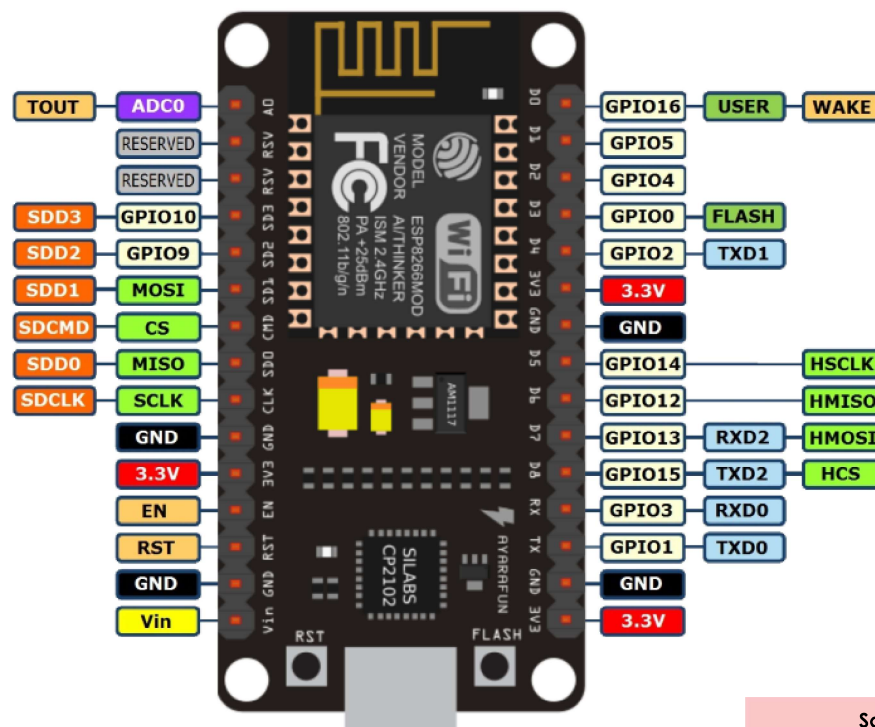


3.3V POWERED

Low Power Consumption

### PINOUT DIAGRAM

#### NodeMCU ESP8266 v1.0



**Safety Precaution**

All GPIO runs at 3.3V !!

Source

<https://iotbytes.wordpress.com/nodemcu-pinout/>