

INTRODUCTION TO NODEMCU

The background is a vibrant blue gradient. It features a network of white, glowing circuit lines that connect various hexagonal nodes. Some of these nodes are highlighted with small, bright blue light points. Scattered throughout the design are small, semi-transparent speech bubble icons containing binary code: '011', '010', '001', and '100'. A large, stylized, 3D-effect hexagon in shades of blue and purple is positioned on the right side of the image, partially overlapping the circuit lines.

Agenda:

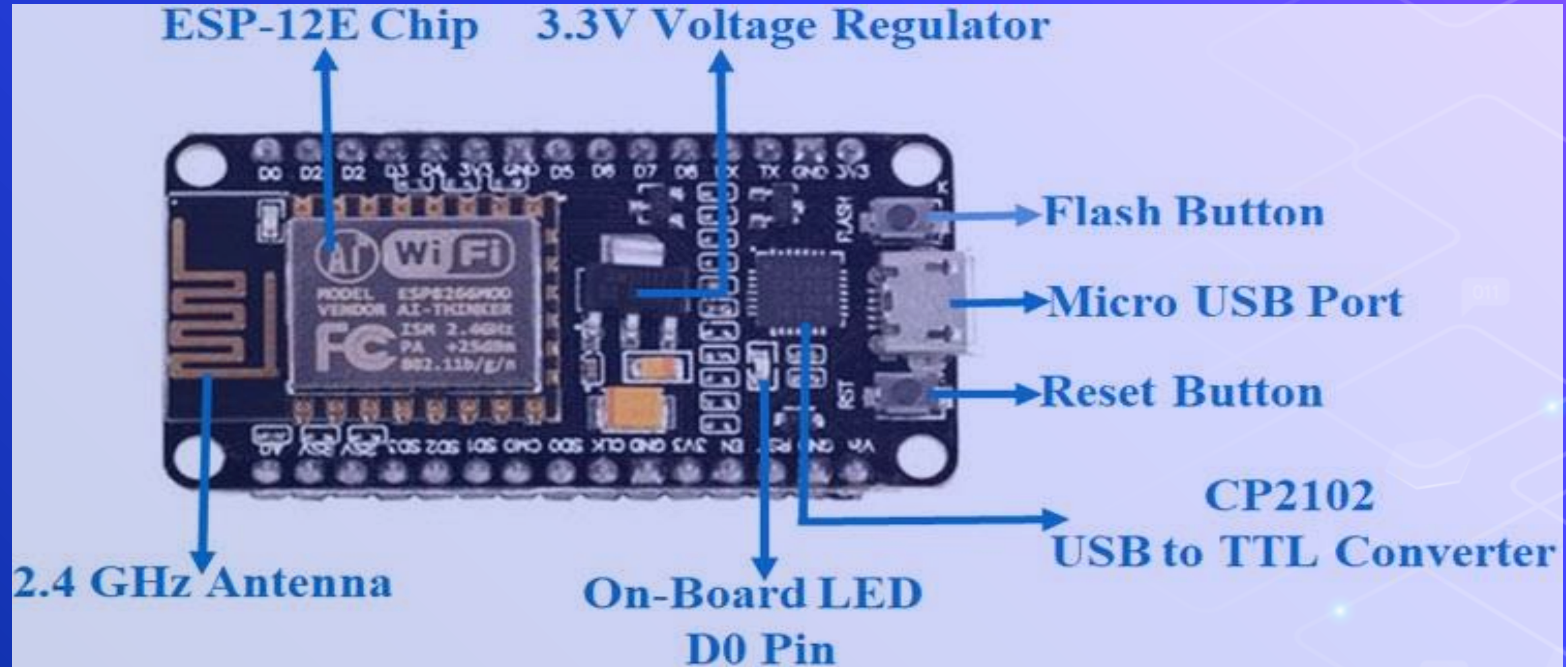
1. About Nodemcu
2. About Arduino IDE
3. About digital and analog pins
4. About sensors
5. About esaycodeging



About Nodemcu

1. NodeMCU is an open-source Lua based firmware and **development board** specially targeted for IoT based Applications. It includes firmware that runs on the ESP8266 Wi-Fi SoC from Espressif Systems, and hardware which is based on the ESP-12 module.

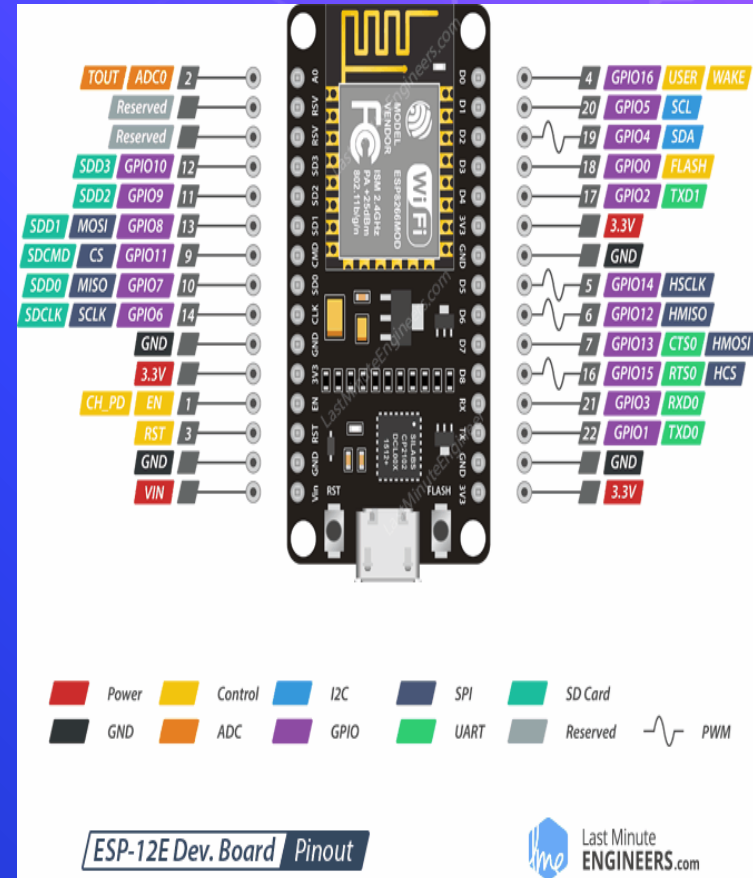




About Nodemcu digital and analog pin

When performing INPUT and OUTPUT tests on the pins, we obtained the following results:

1. digitalWrite did NOT work with GPIOs 6, 7, 8, 11, and ADC (A0)
2. digitalWrite did NOT work with GPIOs 1, 3, 6, 7, 8, 11, and the ADC (A0)
3. analogWrite did NOT work with GPIOs 6, 7, 8, 11, and ADC (A0) (GPIOs 4, 12, 14, 15 have hardware PWM, and the others are by software)
4. analogRead worked only with the ADC (A0), 6, 7, 8, 11 do NOT work for the above four commands



ABOUT SENSORS

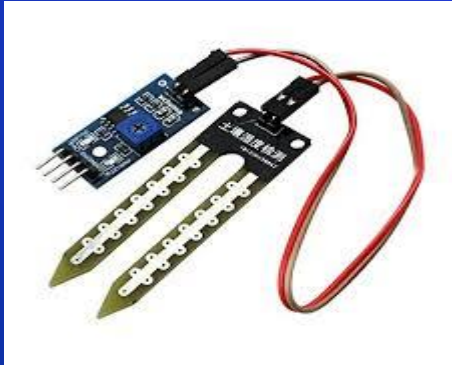
Digital and analog sensors

1. Electronic sensors or electrochemical sensors in which data conversion and data transmission takes place digitally are called as digital sensors. The digital sensor consists of majorly three components: sensor, cable, and transmitter. In digital sensors, the signal measured is directly converted into digital signal output inside the digital sensor itself.
2. There are different types of sensors that produce continuous analog output signal and these sensors are considered as analog sensors. This continuous output signal produced by the analog sensors is proportional to the measurand. There are various types of analog sensors; practical examples of various types of analog sensors are as follows: accelerometers, pressure sensors, light sensors, sound sensors, temperature sensors, and so on.

Digital sensors



Analog sensors



EASY CODING

Easy coding is a site that helps people by making it easy to code by making the code available in the block format that is similar to Google's blockly.

