ARDUINO IDE SETTINGS FOR ESP8266 12E NODEMCU

INTRODUCTION:

Wi-Fi is an essential bit of kit for any Internet of Things (IoT) DIY projects, but our favorite Arduino doesn't come with Wi-Fi, and adding in a Wi-Fi shield can increase the costs substantially.

Meet the ESP8266 12E (also known as NodeMCU) was originally marketed as a low cost Wi-Fi add-on for Arduino boards, until the hacker community realized you could cut the Arduino out of the equation entirely.

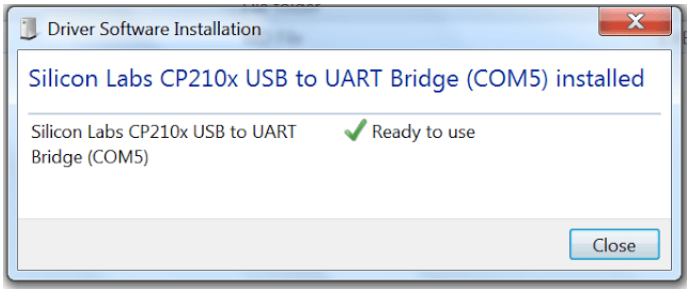
In less than a year, the ESP8266 has rocketed in popularity, and is now so well supported and developed.

There's quite a few models of ESP8266 around now, but we recommend this one: ESP-12E (also known as NodeMCU 2.0). This board includes the serial driver needed to program the chip, and has a built-in power regulator, as well as lots of IO pins. This NodeMCU Devkit is available from our Store.

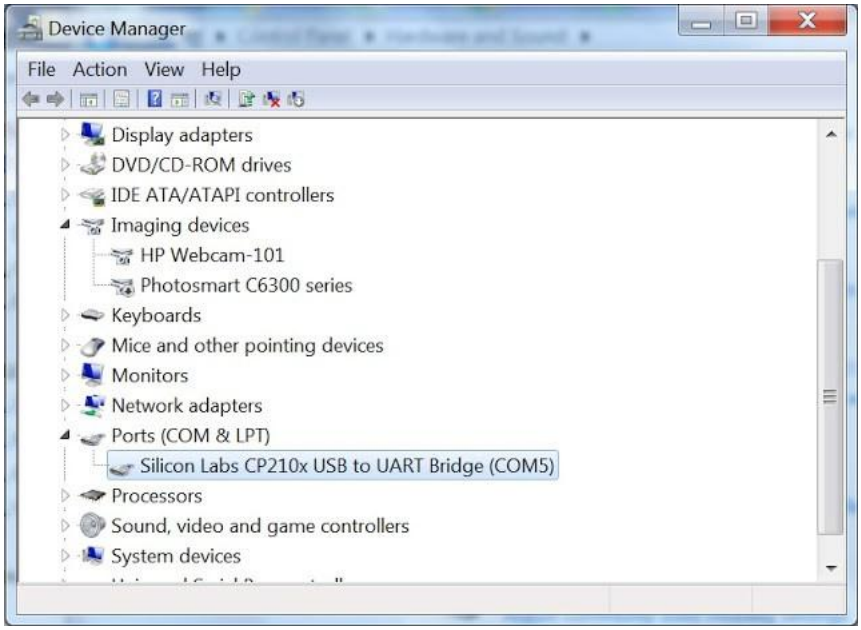
GETTING STARTED WITH ESP8266-12E:

Using Micro usb to standard usb cable Connect ESP8266-12E to your PC. we are using windows 7.

Wait and allow the windows to install the USB driver as shown below.



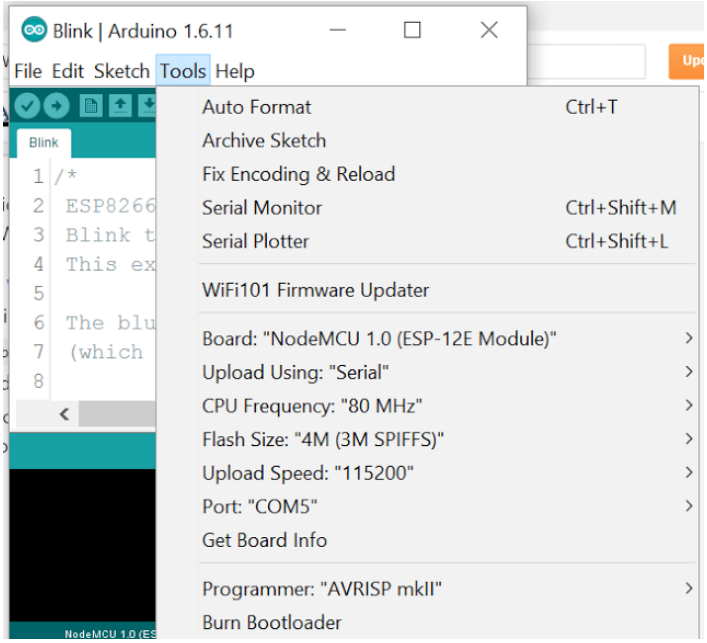
NodeMCU is connected to COM5 . This can also be verified from Device Manager.



ARDUINO IDE SETTINGS

- Install the latest Arduino from the Arduino website.
- Start Arduino and open Preferences window.
- Enter http://arduino.esp8266.com/stable/package_esp8266com_index.json into Additional Board Manager URLs field. You can add multiple URLs, separating them with commas.
- Open Boards Manager from Tools > Board menu and install esp8266 platform

Selecting the NodeMCU board from Tools Menu



Restart Arduino IDE and select blink Example for ESP8266 and upload.