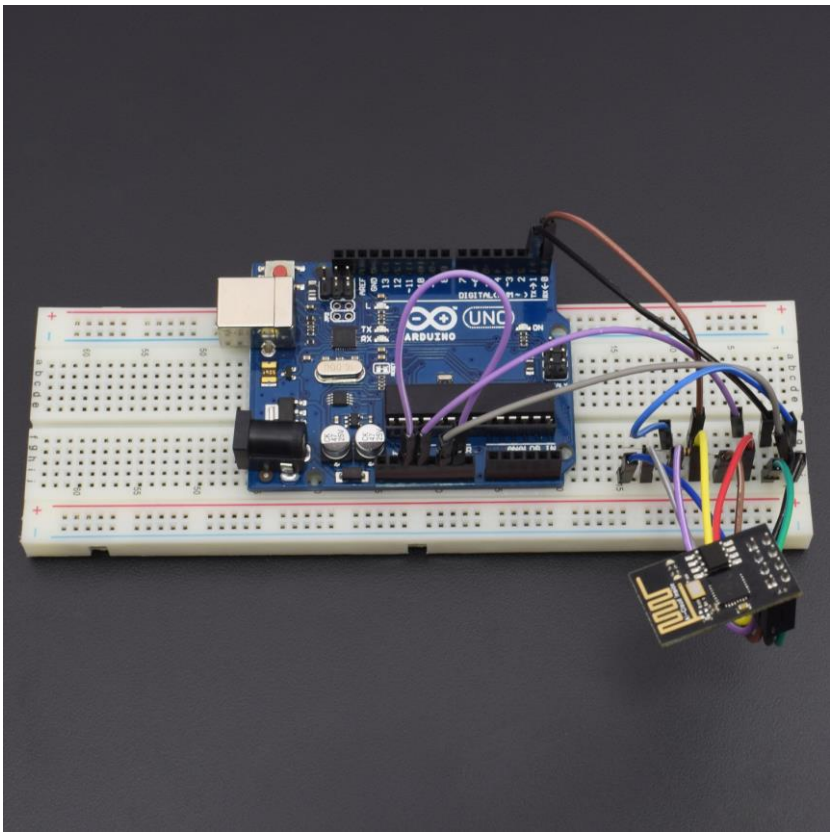
REES 52

PLANTING THE SEED OF INNOVATION

KT 82 6

Scan nearby Wifi Networks with the help of ESP8266 -01 Wifi Module Interfacing with Arduino Uno

PLANTING THE SEED OF INNOVATION



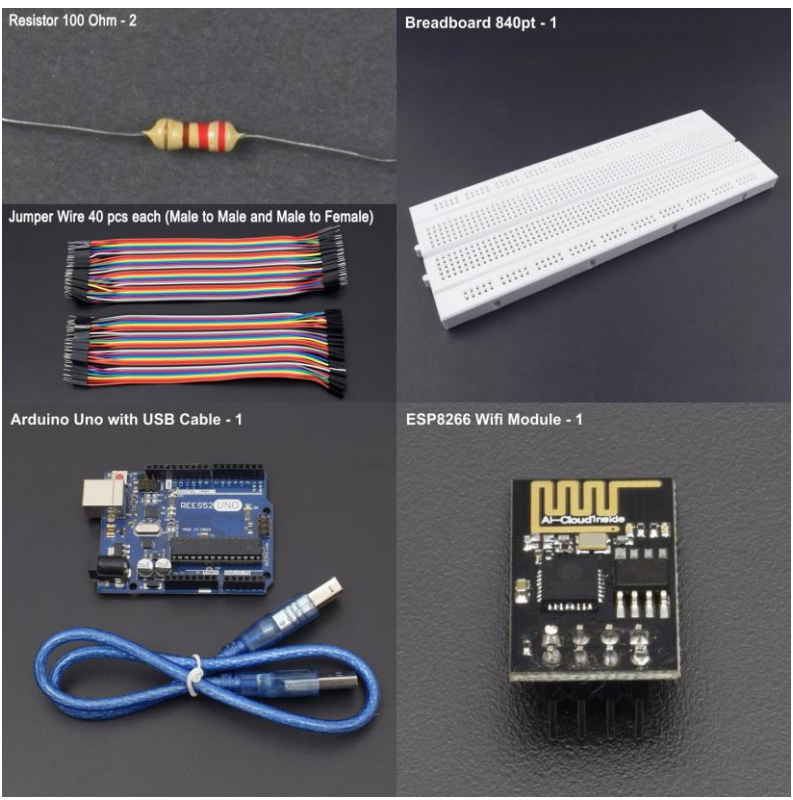
Specifications

ESP8266-01 Wi-Fi module

- 802.11 b/g/n
- Serial/UART baud rate: 115200 bps
- Integrated TCP/IP protocol stack
- Input power: 3.3V (see "Recommended Accessories" below for 3.3V power options)

- I/O voltage tolerance: 3.6V Max (see "Recommended Accessories" below for level converters to connect to higher voltage devices (i.e. Arduino))
- Regular operation current draw: ~70mA
- Peak operating current draw: ~300mA
- Power down leakage current: <10µA
- +19.5dBm output in 802.11b mode
- Flash Memory Size: 1MB (8Mbit)
- Wi-Fi security modes: WPA, WPA2
- Module's dimensions: 24.75mm x 14.5mm (0.974" x 0.571")

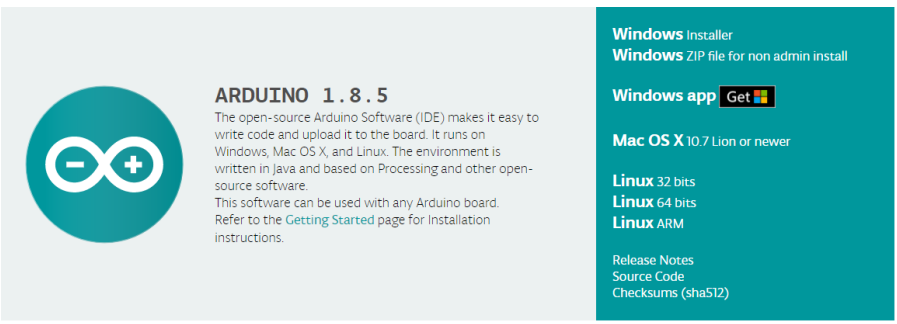
Hardware Required



- Arduino uno with USB cable - 1
- ESP8266-01 Wi-Fi module - 1
- Jumper wires (male to male & male to female) – 40 pieces each
- Breadboard 840 points - 1
- 100 ohm resistor - 2

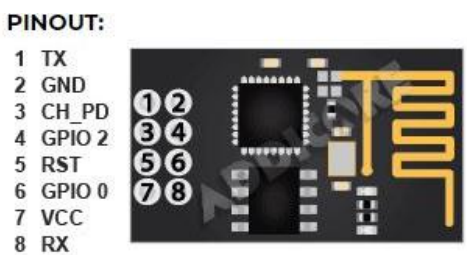
Software Required

Arduino IDE 1.8.5 (Programmable Platform for Arduino Boards)
Click to download the software:
https://www.arduino.cc/en/Main/Software



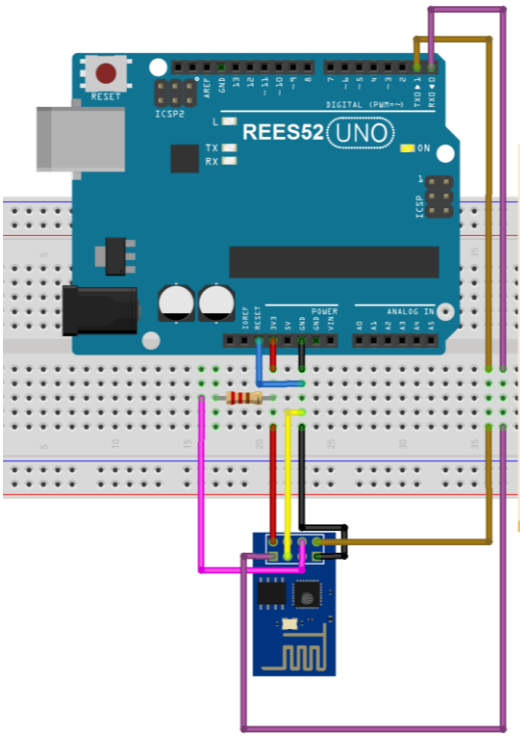
Pin Description

ESP8266-01 Wi-Fi Module



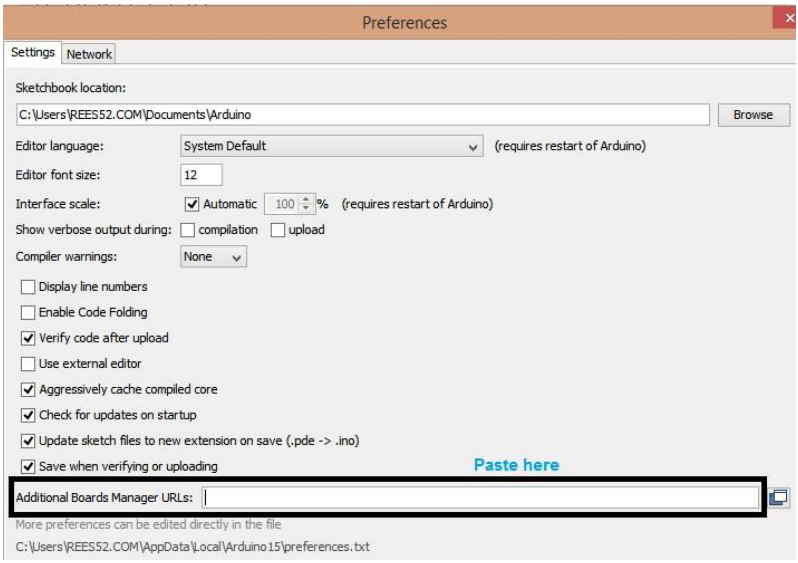
Circuit Connection

Connect all the wires given in diagram below:



- Open Arduino IDE Software

File -> preferences -> paste this link http://arduino.esp8266.com/stable/package_esp8266com_index.json to additional board manager URL

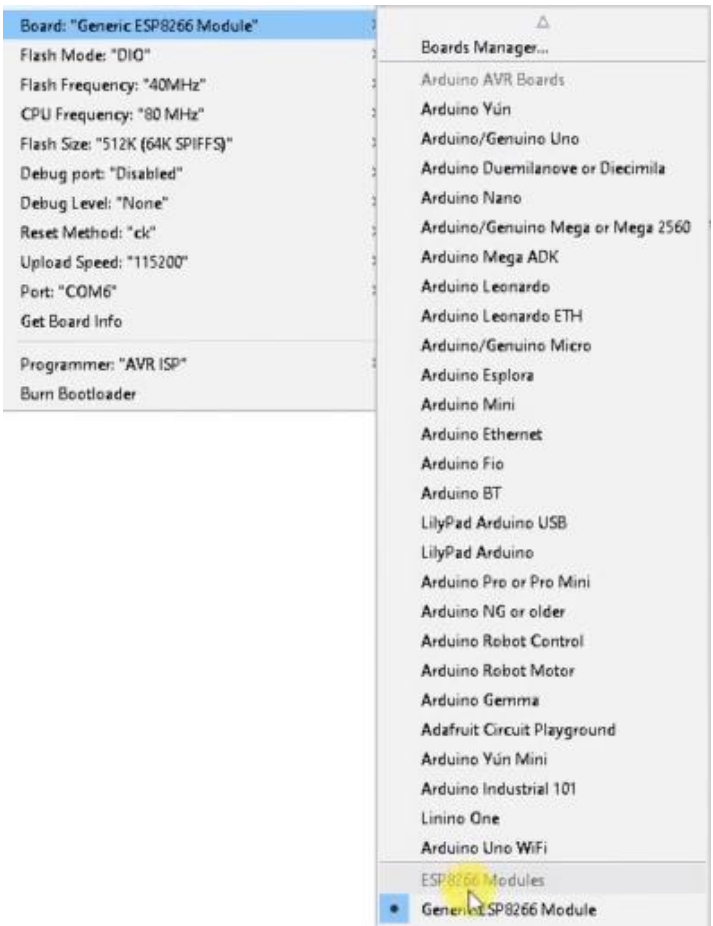


Setup ESP board manager

Tools->Board->Boards manager->search for esp8266 and install it

-ESP8266 setup in ide

Tools -> Boards -> Generic ESP8266 module

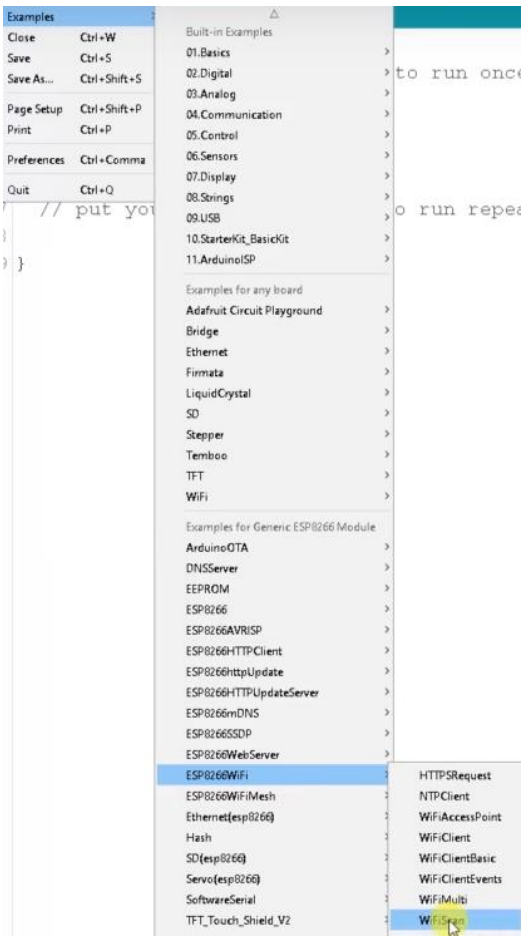


Note: esp8266 required 3.3v if you give it 5v volt it will burn.

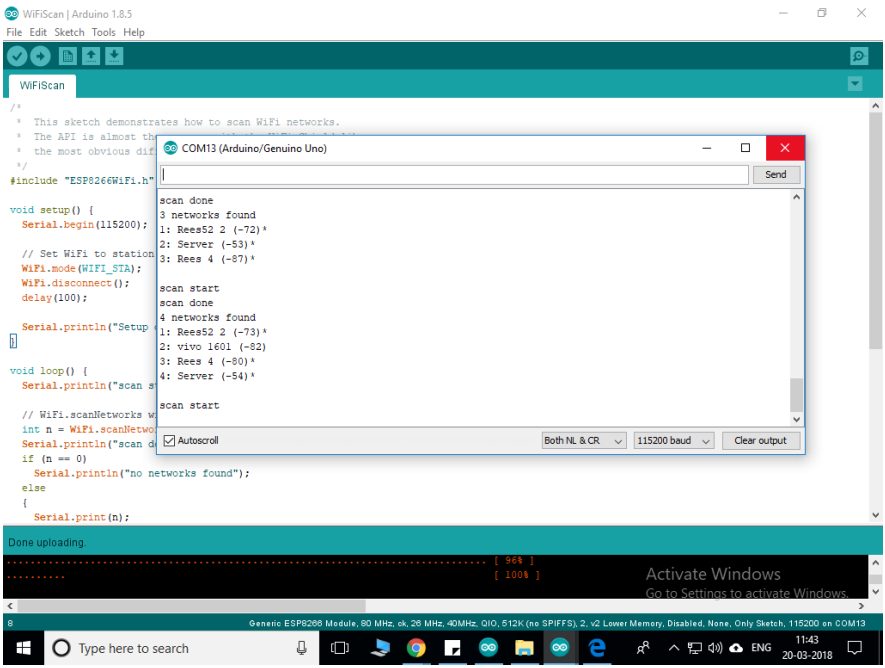
Code

Files→ examples → ESP8266 WIFI → WIFI scan

Upload the code



Output



Must set your baud rate of serial monitor according to the code.

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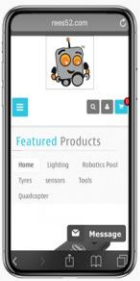

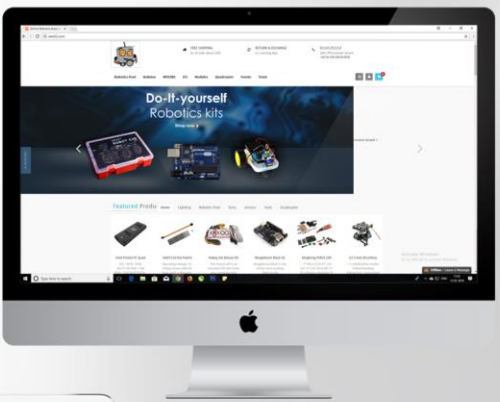

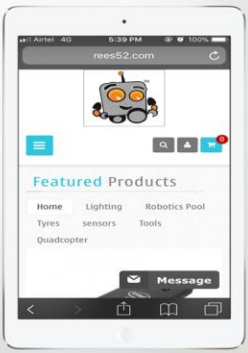

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