

Send email using ESP8266

Step 1:

To ensure that ESP 8266 can function well, we must firmware it into version 0.9.2.4 (Old firmware).

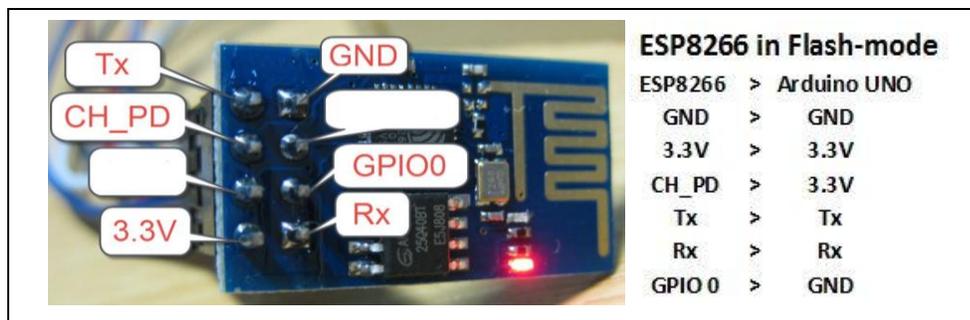
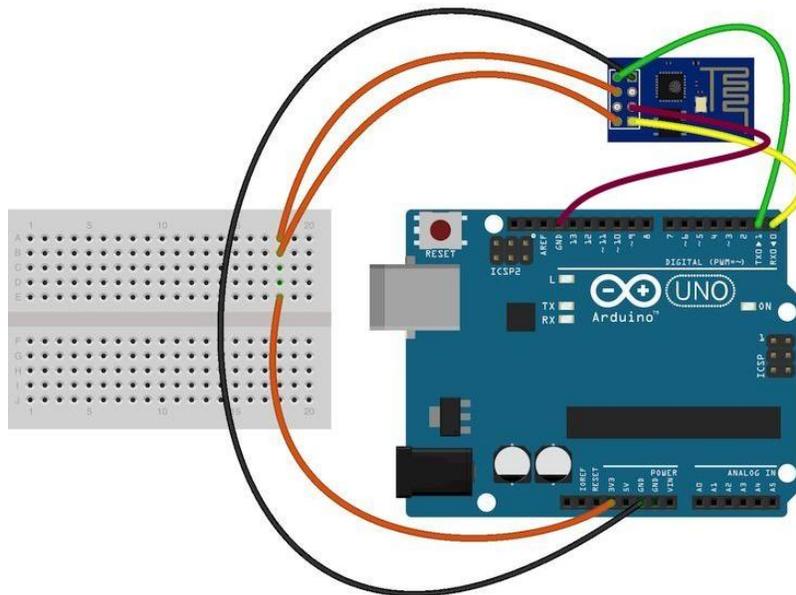
Next, connect the Arduino Uno and upload the “BareMinimum” sketch in arduino.ide software, this is to ensure that nothing will disturb the flasher software. To find “BareMinimum” sketch, go to “File” > “Examples” > “01.Basics” > “BareMinimum”

**Please take note of what COM-Port that Arduino Uno uses. (See your COM > “Tools” > “Port”)

Then close the arduino.ide after uploading the sketch and unplug the USB.

Step 2:

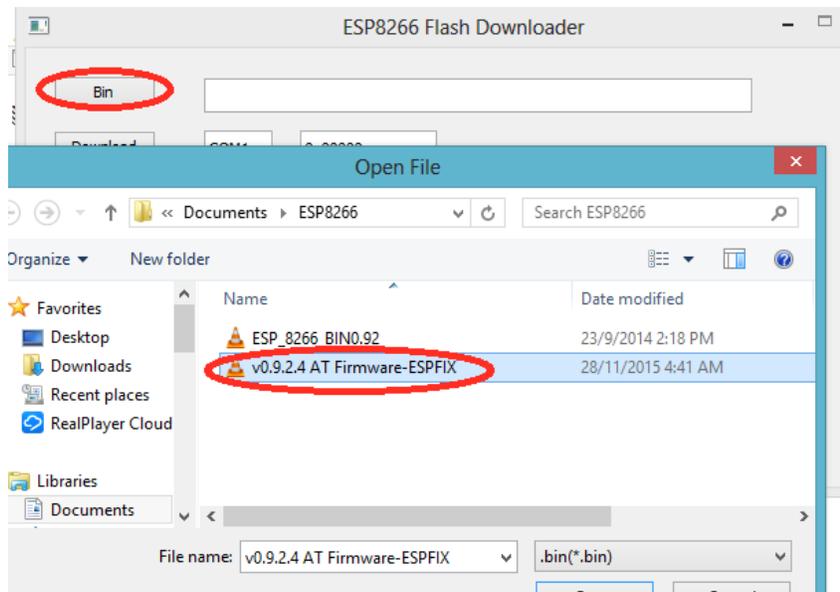
Wiring the ESP8266 as shown in diagram below



Download flasher-software and the 0.9.2.4 firmware BIN-file here:

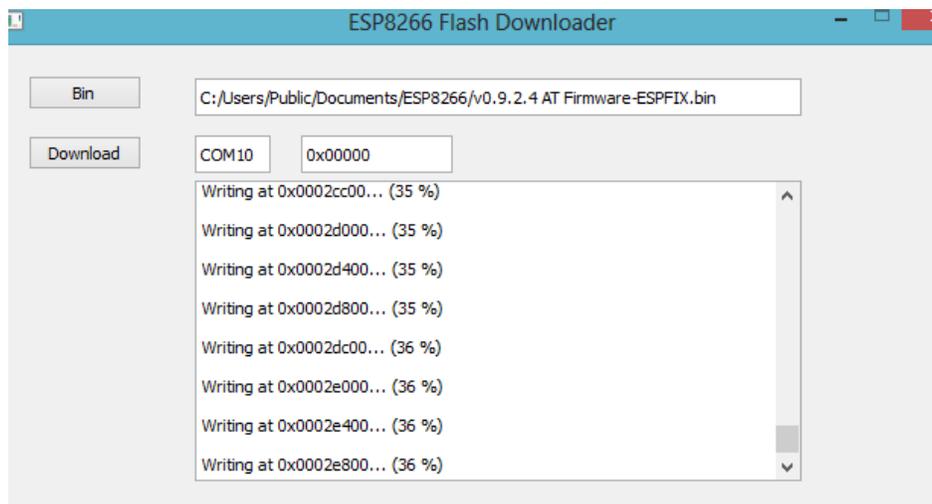
http://www.mediafire.com/download/zcw2gy07s2z60y6/ESP8266_flasher_and_0.9.2.4.zip

Unzip the file then run the flasher software (esp8266_flasher). Then Click on the "BIN"-button and find the BIN-file (**v0.9.2.4 AT Firmware-ESPFIX.bin**) in the folder.



Next is to check whether it is the correct COM port or change it to the correct port that used by arduino.

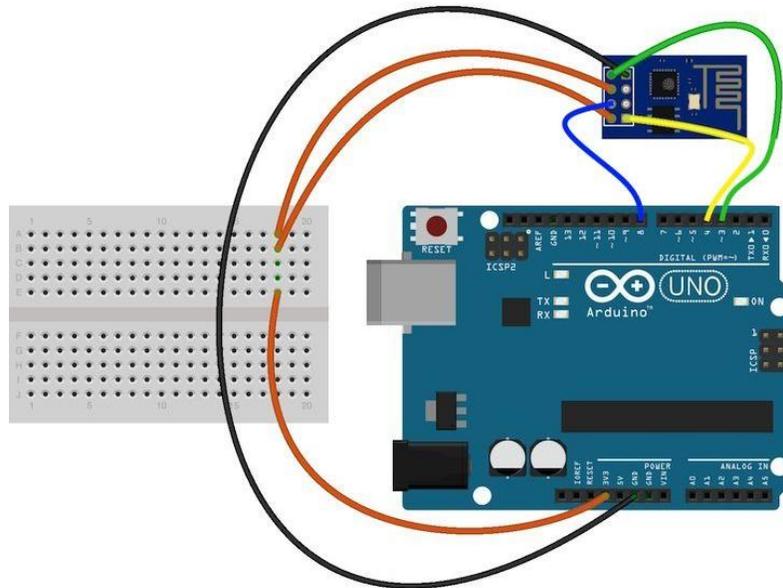
To start the upload, click on the "Download"-button. If everything is running well, the flasher software will show the flashing and the blue LED on the ESP8266 will blink very fast.



Wait until the software finish running and in the end at 99%, it will show some error but this is ok. The ESP8266 now has firmware version: 0.9.2.4.

Step 3

Rewiring the ESP8266 as shown in diagram below



Then upload the sketch provided and make some changes to the code (in yellow circle).

- Network name
- Network password
- Your email and password
- Your email and password in base 64 (go to <https://www.base64encode.org/> and encode the username and password)



SYNACORP TRADING & SERVICES

No.9, 1st Floor, Lrg 1/SS2, Bandar Tasek Mutiara, 14120 Simpang Ampat, S.Prai (S), Penang

Tel : +604.504.1617 Hunting Line : 012.4033.474 Fax : +604.502.1726

(Website) <http://www.synacorp.my> (Email) sales@synacorp.com.my

The image shows two windows from the Arduino IDE. The left window, titled 'COM10', displays the serial terminal output of the code. The right window, titled 'send_email_smtp | Arduino 1.6.7', shows the source code for the 'send_email_smtp' sketch. The code includes comments and defines for network credentials and email details. The terminal output shows the device successfully connecting to WiFi, checking IP address (192.168.0.15), and connecting to a host.

```
COM10
OK
'
Connecting to WiFi...----> AT+CWMODE=1
<---- 'no change'
----> AT+CWJAP="synacorp@unifi3", "zagkacat"
<---- '
OK
'
----> AT+CWMUX=0
<---- '
OK
'
OK
Checking IP addr...----> AT+CIFSR
<---- '192.168.0.15'
192.168.0.15

OK
'
Connecting to host...Connected...----> AT+CWMUX=0
<---- '
OK
'
----> AT+CIPCLOSE

send_email_smtp | Arduino 1.6.7
File Edit Sketch Tools Help
send_email_smtp $
// Must call begin() on the stream(s) before using Adafruit_E
#define ESP_SSID "synacorp@unifi3" // Your network name here
#define ESP_PASS "zagkacat" // Your network password here

char EMAIL_FROM[] = "a@synacorp.com";
char EMAIL_PASSWORD[] = "zagkacat";
char EMAIL_TO[] = "toEmail@domain2.com";
char SUBJECT[] = "My ESP8266";
char EMAIL_CONTENT[] = "Hello,\r\nThis is a message from you

// We'll need your EMAIL_FROM and its EMAIL_PASSWORD base64 e
#define EMAIL_FROM_BASE64 "a@synacorp.com"
#define EMAIL_PASSWORD_BASE64 "zagkacat"

Done uploading.
Global variables use 1,006 bytes (49%) of dynamic memory, lea
Invalid library found in C:\Users\Aspire\Documents\Arduino\li
Invalid library found in C:\Users\Aspire\Documents\Arduino\li
```

Then run the code and when the processes are done, you will receive email from ESP8266.