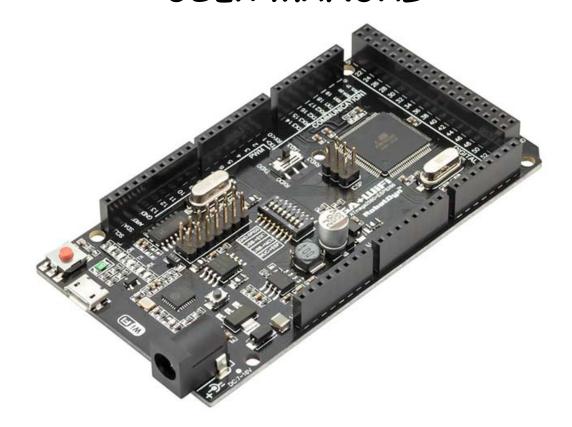
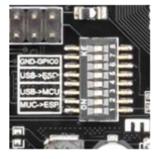


## ARDUINO MEGA 2560 WIFI BT USER MANUAL



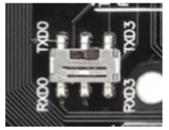
Operating mode is selected by means of DIP switches on-board:



Switch status and mode selection:

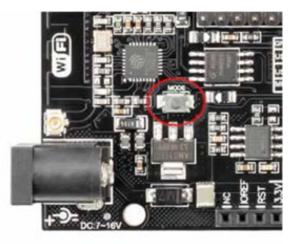
1	2	3	4	5	6	7	8
OFF	OFF	OFF	OFF	ON	ON	ON	No USE
OFF	OFF	OFF	OFF	ON	ON	OFF	No USE
OFF	OFF	ON	ON	OFF	OFF	OFF	No USE
ON	ON	ON	ON	OFF	OFF	OFF	No USE
ON	ON	OFF	OFF	OFF	OFF	OFF	No USE
OFF	OFF	OFF	OFF	OFF	OFF	OFF	No USE
	OFF OFF ON ON	OFFOFFOFFOFFOFFOFFONONONON	OFFOFFOFFOFFOFFOFFOFFOFFONONONONONONOFF	OFFOFFOFFOFFOFFOFFOFFOFFOFFOFFOFFONONONONONONOFF	OFFOFFOFFOFFONOFFOFFOFFOFFOFFONOFFOFFONONONOFFONONONONONOFFONONOFFOFFOFFOFFONONOFFOFFOFFOFF	OFFOFFOFFOFFONONOFFOFFOFFOFFOFFONONOFFOFFONONONOFFOFFONONONONONOFFOFFONONOFFOFFOFFOFFOFFONONOFFOFFOFFOFFOFF	OFFOFFOFFOFFONONOFFOFFOFFOFFONONOFFOFFOFFOFFONONOFFOFFONONONONOFFOFFOFFONONOFFOFFOFFOFFOFFONONOFFOFFOFFOFFOFF

Also, have switch for change of connecting port between ATmega2560 and ESP8266

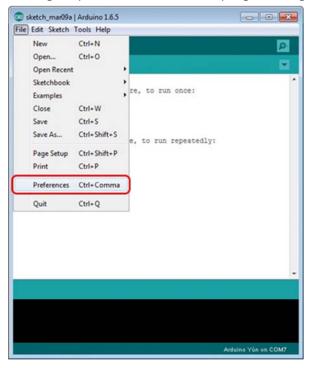


After choosing the mode of the board can proceed to set up the IDE

It is important that when the ESP8266 module is programming, it is necessary to press the button "Mode"



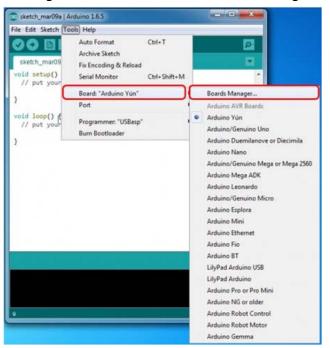
To begin open the Arduino IDE programming environment and go to settings



Then in the window that appears in the row, Additional Boards Manager URLs additional scripts that would work with the modules ESP8266 and click OK

Preferences		
Sketchbook location:		
C:  Lisers admin Documents Arduino		Browse
Editor language: English (English)	(requires restart of Arduino)	
Editor font size: 12		
Show verbose output during: V compliation V upload		
Compiler warnings: None •		
Display line numbers		
Enable Code Folding		
Verify code after upload		
Use external editor		
Check for updates on startup		
Update sketch files to new extension on save (.pde -> .ino)		
Save when verifying or uploading		
Additional Boards Manager URLs:		o
More preferences can be edited drectly in the file		
C: (Users admin AppData Roaming) Arduino 15 preferences. txt		
(edit only when Arduino is not running)		
		OK Cancel

Then go to the Tools> Board> Boards Manager



In the window that appears, scroll through the list down to the script esp8266 by ESP8266 Community

## and click

C Boards Manager	
Type Al  • Pher your search	
Exiter currer bourner by sitter Boards included in this package: Arduino 101. More info	~
AMEL-Tech Boards by AMEL Technology Boards included in this package: SmartEverything Fox. Online help More info	
esp8266 by ESP8266 Community Boards included in this package! Generic ESP8266 Module, Olimex MOD-WIFI-ESP8266(-DEV), NodeMCU 0.9 (ESP-12 N Adafruit HUZZAH ESP8266 (ESP-12), ESPresso Lite 1.0, ESPresso Lite 2.0, SparkFun T D1 mini, ESPino (ESP-12 Module), ESPino (WROOM-02 Module), WifInfo, ESPDuino, Online help More info	
	2.1.0 • Instal
	Close

In the lower right corner will be able to select the version of the software, select the version 2.1.0 (the newest) and click the Install button

😨 Boards Manager		x
Type Al -	Filter your search	
Boards included in this Arduino/Genuino 101. More info	a package:	*
AMEL-Tech Boards by Boards included in this SmartEverything Fox. Online help More info		
Adafruit HUZZAH ESP8		m
	Installing	-
-	Instaling tools (2/3)	

After installation, close the window and go to Tools> Board and see the list of available devices on the chip programming ESP8266

etch_mar23	Auto Format Archive Sketch Fix Encoding & Reload Serial Monitor Serial Plotter	Ctrl+T Ctrl+Shift+M Ctrl+Shift+L	
oid loop(	ESP8266 Sketch Data Upload WiFi101 Firmware Updater	Curronnee	Arduino Fio Arduino BT LilyPad Arduino USB
7 // put y 8 9 }	Board: "Generic ESP8266 Module" Flash Mode: "DIO" Flash Frequency: "40MHz" CPU Frequency: "80 MHz" Flash Size: "512K (64K SPIFFS)" Debug port: "Disabled" Debug Level: "None" Reset Method: "ck" Upload Speed: "115200" Port Get Board Info		LilyPad Arduino Oso LilyPad Arduino Arduino Pro or Pro Mini Arduino NG or older Arduino Robot Control Arduino Robot Motor Arduino Gemma Adafruit Circuit Playground Arduino Yún Mini Arduino Industrial 101 Linino One Arduino Uno WiFi
	Programmer: "AVRISP mkli" Burn Bootloader	3	ESP8266 Modules     Generic ESP8266 Module

Next, you need to select the card as shown in the picture (Generic ESP8266 module)

Debug Level: "None"	>		
Reset Method: "ck"	>		
Upload Speed: "115200"	2	•	115200
Port	2		9600
Get Board Info			57600
Programmer: "AVRISP mkll"	,		256000
Burn Bootloader			512000
			921600

## Select the upload speed - 115200

Tools	Help		
	Auto Format	Ctrl+T	
	Archive Sketch		
	Fix Encoding & Reload		
	Serial Monitor	Ctrl+Shift+M	
	Serial Plotter	Ctrl+Shift+L	
	ESP8266 Sketch Data Upload		
	WiFi101 Firmware Updater		43
	Board: "Generic ESP8266 Module"		>
	Flash Mode: "DIO"		>
	Flash Frequency: "40MHz"		>
	CPU Frequency: "80 MHz"		>
	Flash Size: "512K (64K SPIFFS)"		>
	Debug port: "Disabled"		>
	Debug Level: "None"		>
	Reset Method: "ck"		>
	Upload Speed: "115200"		>
	Port		>
	Get Board Info		

=======test sketch for ATmega2560=========

```
void setup()
```

## {

```
Serial3.begin (115200);
 pinMode (13,OUTPUT);
 delay (500);
 Serial3.println ("AT+CIPMUX=1");
 Delay (2000);
 Serial3.println ("AT+CIPSERVER=1,5000");
 delay(2000);
 Serial3.println ("AT+CIPSTO=3600");
 Delay (2000);
}
void loop()
{
 While (Serial3.available())
{
char Rdata;
Rdata=Serial3.read ();
If (Rdata=='A'|Rdata=='a')
{
 digitalWrite (13,HIGH);
 delay (50);
```

```
}
else if(Rdata=='B'|Rdata=='b')
{
    digitalWrite (13,LOW);
    delay (10);
    digitalWrite(13,HIGH);
    delay (10);
    digitalWrite (13,LOW);
    }
    else
    {
        digitalWrite (13,LOW);
    }
}
```