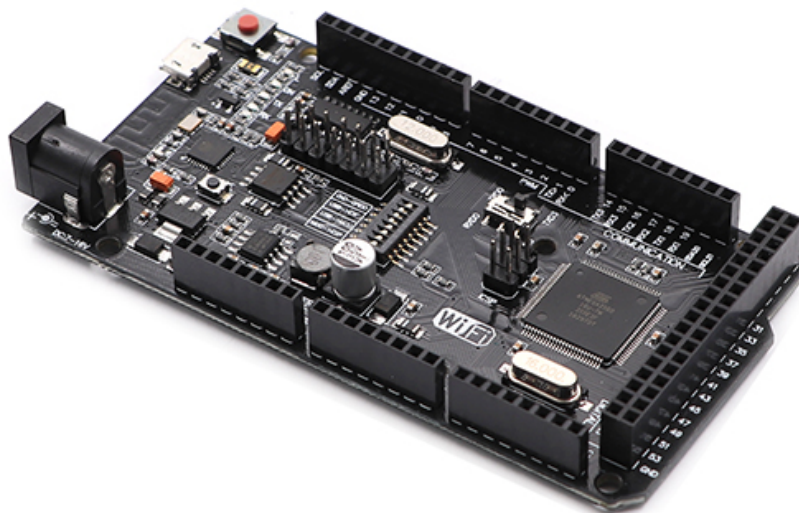




Arduino Mega 2560 Wifi Bluetooth User's Manual



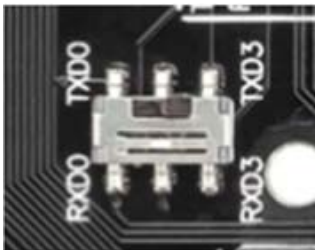
Operating mode is selected by means of DIP switches on-board:



Switch status and mode selection:

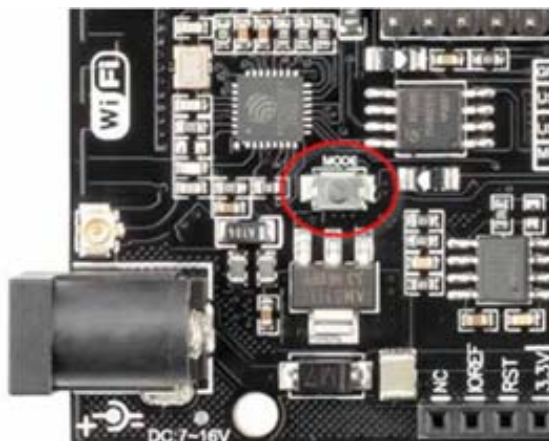
	1	2	3	4	5	6	7	8
<i>CH340 connect to ESP8266 (upload sketch)</i>	OFF	OFF	OFF	OFF	ON	ON	ON	No USE
<i>CH340 connect to ESP8266 (connect)</i>	OFF	OFF	OFF	OFF	ON	ON	OFF	No USE
<i>CH340 connect to ATmega2560 (upload sketch)</i>	OFF	OFF	ON	ON	OFF	OFF	OFF	No USE
<i>CH340 connect to Mega2560 COM3 connect to ESP8266</i>	ON	ON	ON	ON	OFF	OFF	OFF	No USE
<i>Mega2560+ESP8266</i>	ON	ON	OFF	OFF	OFF	OFF	OFF	No USE
<i>All modules work independent</i>	OFF	OFF	OFF	OFF	OFF	OFF	OFF	No USE

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

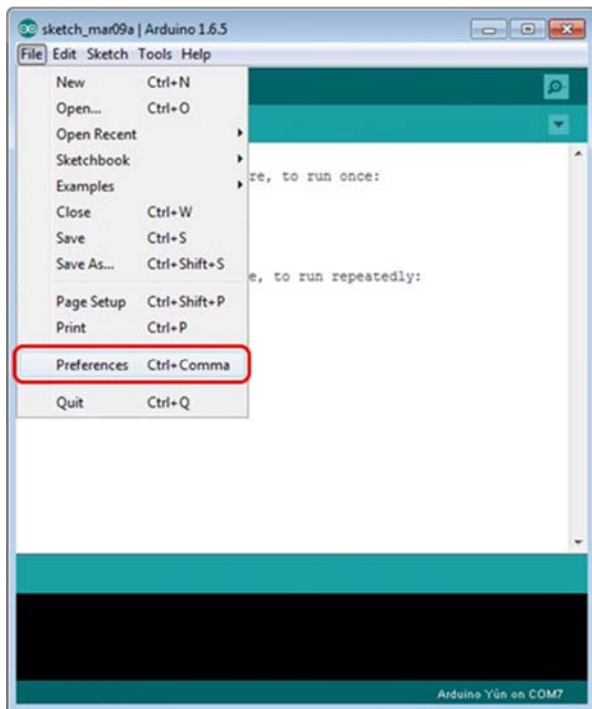


After choosing the mode of the board can proceed to set up the IDE

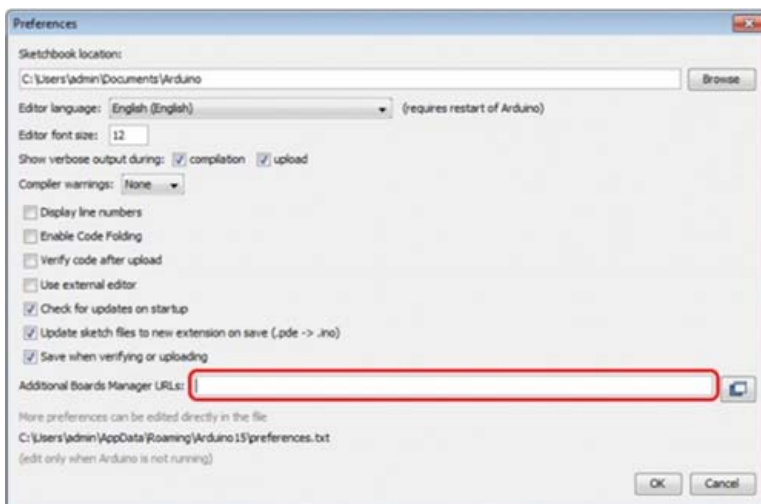
It is important that when the ESP8266 module is programming, it is necessary to press the button "Mode"



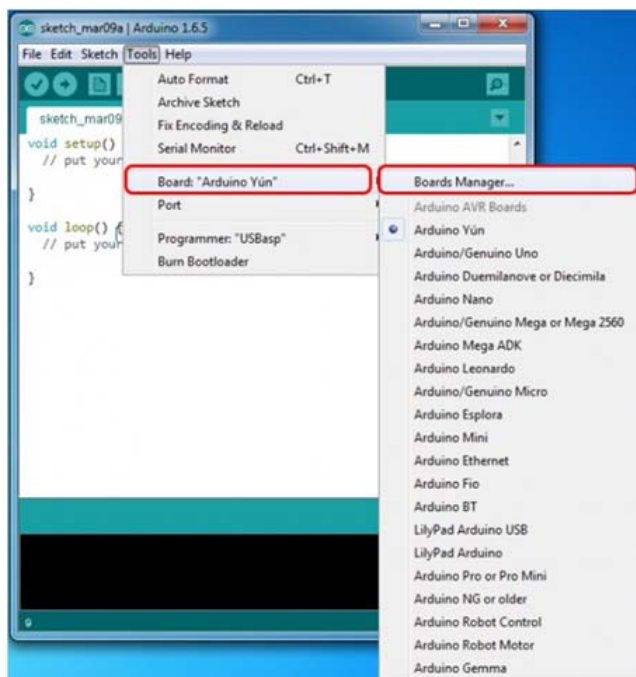
To begin open the Arduino IDE programming environment and go to settings



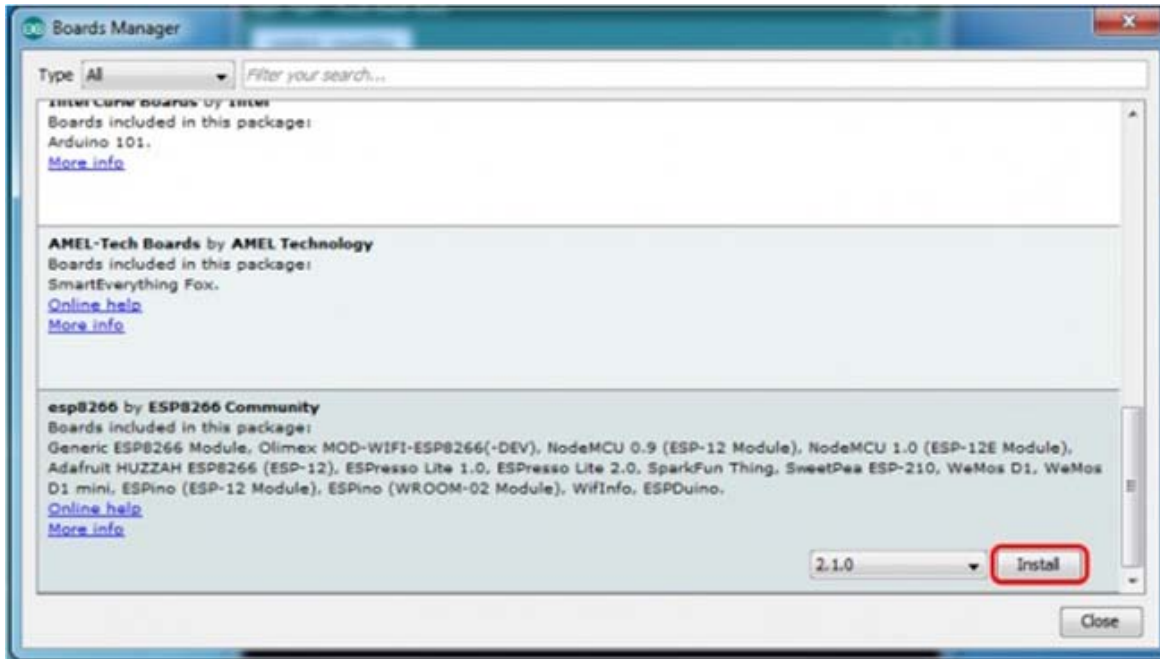
Then in the window that appears in the row, Additional Boards Manager URLs additional scripts that would work with the modules ESP8266 and click OK



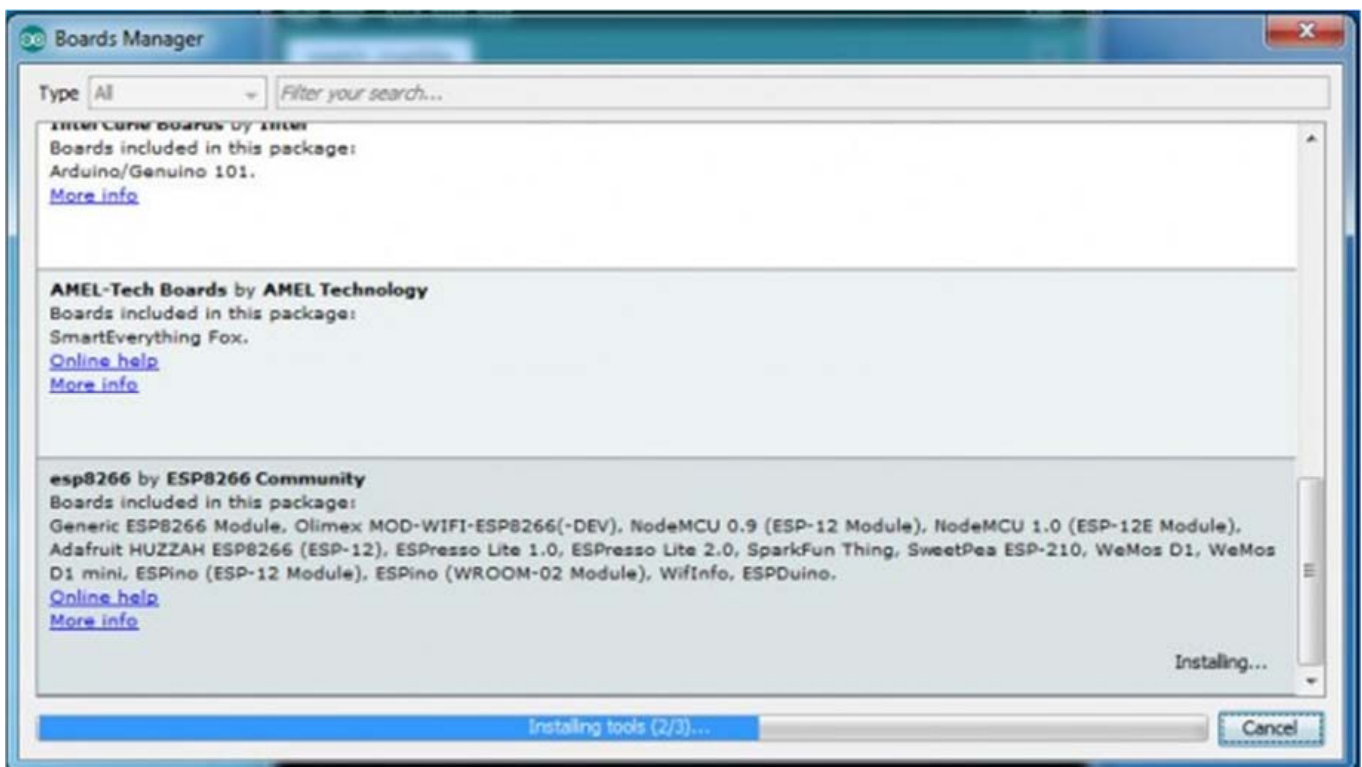
Then go to the Tools> Board> Boards Manager



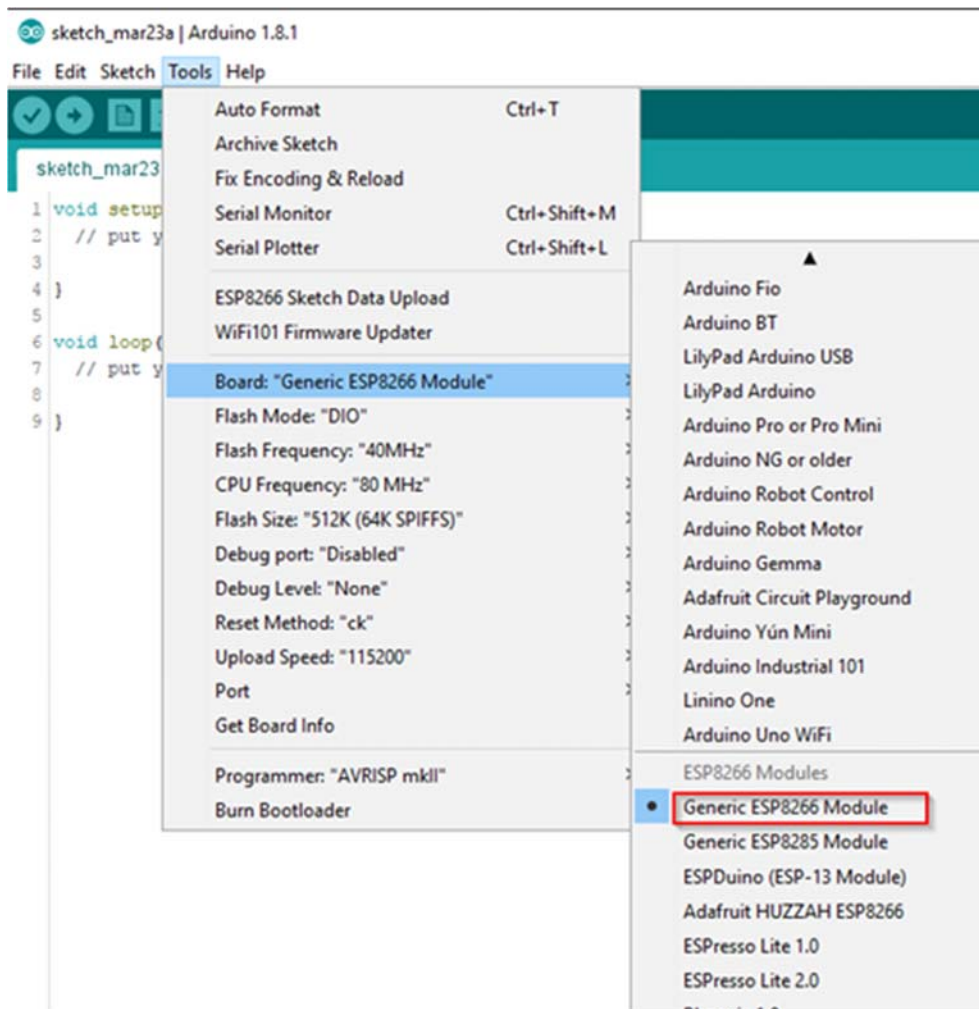
In the window that appears, scroll through the list down to the script esp8266 by ESP8266 Community and click



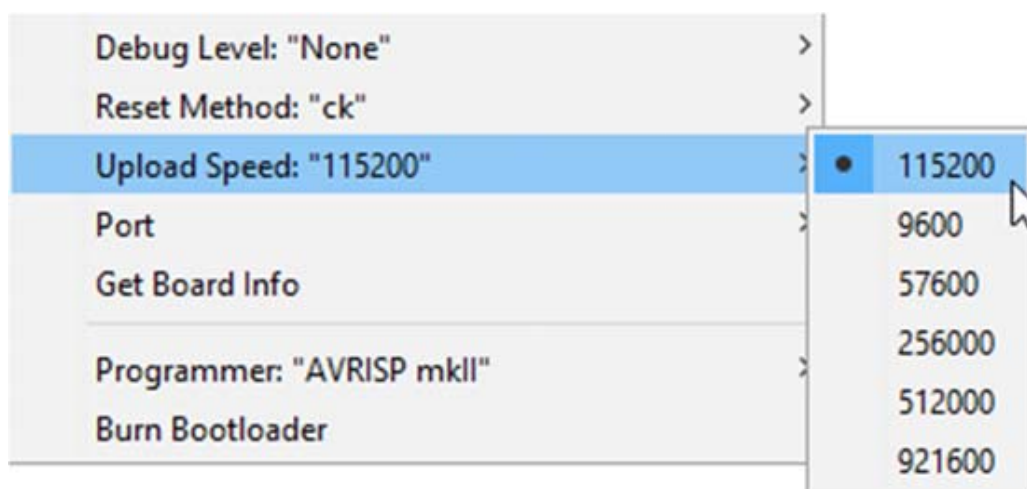
In the lower right corner will be able to select the version of the software, select the version 2.1.0 (the newest) and click the Install button



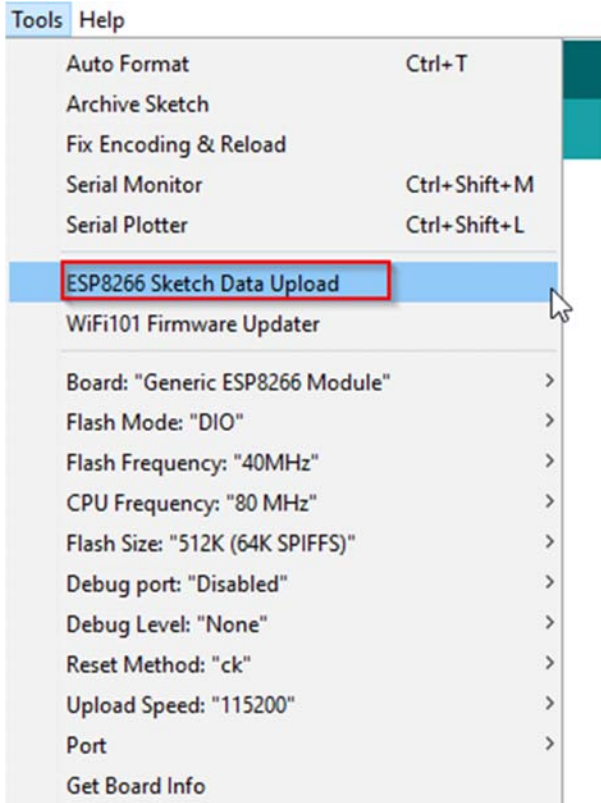
After installation, close the window and go to Tools> Board and see the list of available devices on the chip programming ESP8266



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



Select the upload speed - 115200



=====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);  
}  
}  
}
```