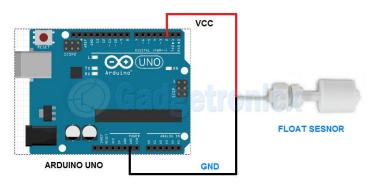
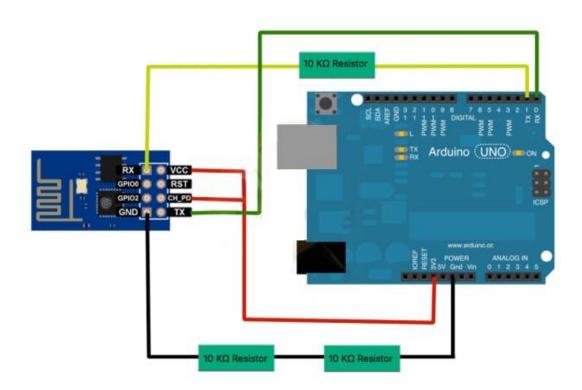
ESP8266 Wi-Fi Module with Arduino Uno Programmer

Circuit:



Buy Components at low prices, Visit www.lcsc.com



Source: https://create.arduino.cc/projecthub/coderscafe/telegram-bot-with-esp8266-dbada8

 $\frac{https://www.gadgetronicx.com/interfacing-float-sensor-arduino/#:^:text=INTERFACING%20THE%20MAGNETIC%20FLOAT%20SENSOR%20SWITCH%20WITH%20ARDUINO%3A&text=The%20VCC%20terminal%20of%20float,either%20being%20high%20or%20low.}$

Operating System: ubuntu 20.04.3

Aurdino Configuration

Board: ESP8266 Boards(3.0.2) -> Aurdino

Model: Uno WiFi

Port : dev/ttyUSB0

Code:

```
#include <UniversalTelegramBot.h>
#include <ESP8266WiFi.h>
#include <WiFiClientSecure.h>
#define TELEGRAM_BUTTON_PIN 5
// ----- Telegram config -----
#define BOT_TOKEN "5594386813:AAHYe1eBolpmoz5fH46i8JIAQqSpTfGE2dg" // your Bot Token (Get
from Botfather)
#define CHAT_ID "1140760526" // Chat ID of where you want the message to go (You can use MyldBot
to get the chat ID)
//----- WiFi Settings -----
char ssid[] = "XXX"; // your network SSID (name)
char password[] = "XXX"; // your network key
// SSL client needed for both libraries
WiFiClientSecure client;
```

```
UniversalTelegramBot bot(BOT_TOKEN, client);
String ipAddress = "";
void setup()
  Serial.begin(115200);
 // Initlaze the buttons
  pinMode(TELEGRAM_BUTTON_PIN, INPUT);
 // Set WiFi to station mode and disconnect from an AP if it was Previously
  // connected
  WiFi.mode(WIFI_STA);
  WiFi.disconnect();
  delay(100);
 // Attempt to connect to Wifi network:
  Serial.print("Connecting Wifi: ");
  Serial.println(ssid);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED)
  {
    Serial.print(".");
    delay(500);
  Serial.println("");
  Serial.println("WiFi connected");
```

```
Serial.println("IP address: ");
  IPAddress ip = WiFi.localIP();
  Serial.println(ip);
  ipAddress = ip.toString();
void sendTelegramMessage()
  String message = "SSID: ";
  message.concat(ssid);
  message.concat("\n");
  message.concat("IP: ");
  message.concat(ipAddress);
  message.concat("\n");
  if(bot.sendMessage(CHAT_ID, message, "Markdown"))
    Serial.println("TELEGRAM Successfully sent");
 }
}
int count = 0;
int buttonState = LOW;
void loop() {
buttonState = digitalRead(TELEGRAM_BUTTON_PIN);
if (buttonState == LOW)
  count ++;
```

```
Serial.println("WATER LEVEL - HIGH");
}
else
{
    count = 0;
    Serial.println("WATER LEVEL - LOW");
}

delay(1000);

if (count==1)
{
    sendTelegramMessage();
}
```

Problems:

• Even though the code is being compiled, it is not getting uploaded to the board.

Arduino: 1.8.19 (Linux), Board: "Arduino, Uno WiFi, 80 MHz, Flash, Disabled (new aborts on oom), Disabled, All SSL ciphers (most compatible), 32KB cache + 32KB IRAM (balanced), Use pgm_read macros for IRAM/PROGMEM, 4MB (FS:none OTA:~1019KB), v2 Lower Memory, Disabled, None, Only Sketch, 115200"

Executable segment sizes:

```
ICACHE: 32768 - flash instruction cache

IROM: 358576 - code in flash (default or ICACHE_FLASH_ATTR)

IRAM: 27769 / 32768 - code in IRAM (IRAM ATTR, ISRs...)
```

DATA: 1504) - initialized variables (global, static) in RAM/HEAP RODATA: 1888) / 81920 - constants (global, static) in RAM/HEAP BSS : 25968) - zeroed variables (global, static) in RAM/HEAP Sketch uses 389737 bytes (37%) of program storage space. Maximum is 1044464 bytes. Global variables use 29360 bytes (35%) of dynamic memory, leaving 52560 bytes for local variables. Maximum is 81920 bytes. esptool.py v3.0 Serial port /dev/ttyUSB0 Connecting.....___....__....__.... *Traceback (most recent call last):* File "/home/gb/.arduino15/packages/esp8266/hardware/esp8266/3.0.2/tools/upload.py", line 66, in <module> esptool.main(cmdline) File "/home/gb/.arduino15/packages/esp8266/hardware/esp8266/3.0.2/tools/esptool/esptool.py", line 3552, in main esp.connect(args.before, args.connect attempts) File "/home/gb/.arduino15/packages/esp8266/hardware/esp8266/3.0.2/tools/esptool/esptool.py", line 529, in connect raise FatalError('Failed to connect to %s: %s' % (self.CHIP NAME, last error)) esptool.FatalError: Failed to connect to ESP8266: Timed out waiting for packet header esptool.FatalError: Failed to connect to ESP8266: Timed out waiting for packet header

This report would have more information with "Show verbose output during compilation" option enabled in File -> Preferences.

Source: https://forum.arduino.cc/t/esp-8266-timed-out-waiting-for-packet-header/597634

• The ESP8266 is not responding to AT command

Source: https://arduino.stackexchange.com/questions/13226/esp8266-not-responding-to-the-at-commands

https://community.blynk.cc/t/esp8266-01s-not-responding-to-atcommands/45937/9

Not getting any output for AT command and AT+GMR command in serial monitor for all baud rate.

Only Tx LED is blinking, the Rx LED is remaining low.

• Tried Flashing and uploading the firmware to ESP8266 module

Source: https://cordobo.com/2300-flash-esp8266-01-with-arduino-uno/

esptool.py -b 9600 --port /dev/ttyUSB0 erase_flash

Not getting any serial response

esptool.py v4.1
Serial port /dev/ttyUSB0
Connecting

A fatal error occurred: Failed to connect to Espressif device: No serial data received.

For troubleshooting steps visit:

https://docs.espressif.com/projects/esptool/en/latest/troubleshooting.html

