

ESP8266 WiFi client

The ESP8266 WiFi Module is a self-contained SOC with integrated TCP/IP protocol stack that can give any microcontroller access to your WiFi network. The module has a wireless WiFi transceiver operating in an unlicensed frequency range of 2400-2484 MHz in the IEEE 802.11 b/g/n standard, with support for TCP/IP communication protocol stack and WiFi security including WAP3.

Connecting to a wifi network is relatively easy with ESP8266WiFi library.

Compile the following code and upload it to the device.

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WifiClient §

#include <ESP8266WiFi.h>
#include <ESP8266WiFiMulti.h>
#include "ESP8266Ping.h"
#ifndef STASSID
#define STASSID "ssid"
#define STAPSK "password"
#endif
const char* ssid = STASSID;
const char* password = STAPSK;
const char* remote_host = "google.com";
ESP8266WiFiMulti WiFiMulti;
void setup() {
    Serial.begin(115200);
    // We start by connecting to a WiFi network
    WiFi.mode(WIFI_STA);
    WiFiMulti.addAP(ssid, password);
    Serial.println();
    Serial.println();
    Serial.print("Wait for WiFi... ");
    while (WiFiMulti.run() != WL_CONNECTED) {
        Serial.print(".");
        delay(500);
    }
    Serial.println("");
    Serial.println("WiFi connected");
    Serial.println("IP address: ");
    Serial.println(WiFi.localIP());
    delay(500);
}
void loop() {
    if(Ping.ping(remote_host)) {
        Serial.println("Online");
        delay(1000);
    } else {
        Serial.println("Offline");
        delay(1000);
    }
}
```

In the above code please change ssid and password.

This code will connect to the wireless SSID and then ping the google web site