Distance :100m~200m

WIFI V3.0 use 32 Bit CPU, support TCP and UDP

# WIFI V3.0 DroneBridge website

## ..ll..ll. DroneBridge

DroneBridge for ESP32 - v3.0 - esp-idf v4.4

## Statistics

● connected to ESP32

| UART received bytes | TCP Connected clients | Wifi Connected clients |
|---|---|---|
| 8.84 kb | 0 client | 1 client |

## Settings (If you save changed settings, you should reboot ESP32)

**Wifi SSID (MAX 32 Bytes)**

DroneBridge ESP32

**Wifi Password (MIN 8 Bytes,MAX 64 Bytes)**

12345678

**Wifi Channel (1-13)**

6

**UART TX Pin**

1

**UART RX Pin**

3

**UART serial protocol**

Transparent/MAVLink ⌄

**UART baud**

57600 ⌄

**MSP & LTM to same port**

No - MSP: 1607 LTM: 1604 ⌄

**LTM frames per packet**

1 ⌄

**Transparent packet size**

64 ⌄

**Gateway IP address (Last Byte must be 1)**

192.168.2.1

SAVE SETTINGS          REBOOT ESP32

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# HOW to use WIFI Module for PIXHAWK?

## 1.**How to connect?**

use 6P line connects to pixhawk flight controller.

Due to the different firmware, some firmware, two ports can be used, some firmware can only use one of the ports. So find one of the available ports for the connection.

IF you use PX4 firmware ,only TELEM1 can be used ,can not use TELEM2.

For Ardupilot firmware , It is recommended to use the TELEM2 port. Or find one of the available ports for the connection.

For PX4 firmware , should use TELEM1 port.

## 2.How to use?

Please note：When using Wifi Radio Telemetry connection, it must use 3DR Power Module or 5V ESC to supply power to the flight control. USB cannot be inserted because USB priority is higher than Radio Telemetry . If USB cable is plugged in, it cannot be used for radio telemetry transmission.

The wifi hotspot name is Drone, so use telephone or computer connect to this hotspot, the password is 12345678.
Note:Some device(For example some iphone IOSsystem) cannot get ip automatically, you should set manual.

Set the Configure IP as Manual. Set IP address as "192.168.4.5" or other, but can not set as " 192.168.4.1″,  the last number cannot exceed 254.Set Subnet Mask as "255.255.255.0"(should set this value, cannot other). Set Router as "192.168.4.1"(should set this value, cannot other)

When your device connect to this hotspot successfully, you can use browser to vist http://192.168.4.1 , you can modify parameter.
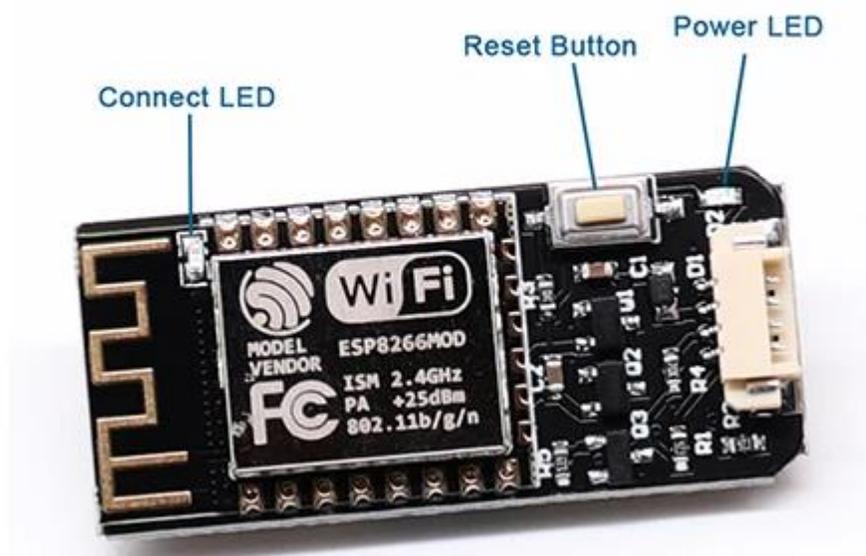
Note, the button is reset button ,not reboot button, when press the button , all the parameter will be set to default if you modify some parameter .

Power LED: when power up, the red LED is on.

Connect LED: when connect with ground control(For example, Mission Planner or Qgroundcontrol) successfully,the blue LED is flahing. when disconnect with ground control ,the blue LED is on.

1.How to use for Mission planner ?

Firstly, connect your PC to hotspot Drone successfully. Select UDP. Then click "Connect" button ,use 14550 port. Click "Ok".There is no need to choose the baud rate. The default baud rate of the wifi module is 57600. But 115200 or other can also work.

2.How to use for Telephone

For Android: Download qgroundcontrol (only for pixhawk,not for APM) from here,http://qgroundcontrol.com/downloads/

Download DroidPlanner from here,https://github.com/DroidPlanner/Tower/releases

For iphone(IOS): Search qgroundcontrol on app store.

qgroundcontrol(only for pixhawk,not for APM) can connect automatically, DroidPlanner should choose "UDP" and "14550" port before connecting to groundcontrol.