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Perfect Tuning Dual Wireless Module (Bluetooth and WiFi) for Megasquirt

This device is used to connect to any Megasquirt 2 and 3 / MS3 GoldBox, MS3Pro (except MS1) with applications like TunerStudio, MSDroid or RealDash available for Android and iOS devices (Bluetooth is not compatible with iOS Devices, only WiFi).

Only one connection is supported at the same time to any Megasquirt ECU version. Reboot Megasquirt and Dual wireless module when changing connection mode.

Specifications:

- Working voltage: 4.5 - 20 Vdc. Current consumption: ~100 mA @ 5v.
- Work at 115200 baud.
- Wi-Fi: Range is maximum 50 meters with line of sight.
- Bluetooth range: Maximum 10 meters when line of sight with the supplied antenna.
- Comes with a female SMA connector and 3db external antenna.
- Download speed of a SD Log is around 32 KB/sec with bluetooth and Wifi.

Microsquirt users: a special cable is required to use this module with the Microsquirt and must be supplied on 12v. The 5v output of the Microsquirt is not powerful enough to power the module.

For **MegasquirtPNP Gen2**, there could be a jumper inside the ECU to put in place to provide 5v to the pin 9 on the serial plug. See next page.

How to use the module:

Default WiFi password is: **12345678**, default Bluetooth password is: **1234**

For Wifi, the IP address is **192.168.4.1** and the port is **2000**.

1. Connect the cable to the Megasquirt ecu.
At power on, the green indicator will blink 3 times and then stay solid. This means that the module is waiting for a Bluetooth or WiFi connection.
If module blink fast, bluetooth connection is established
If module blink slow, wifi connection is established.
2. With your smartphone or laptop, search for Wi-Fi/Bluetooth around named Perfecttuning-XXXX.
3. Connect to the Bluetooth or Wi-Fi hotspot with the password provided on the label.
4. Open the application and configure the application for Megasquirt products

Using a Perfect Tuning WiFi module with an MSPNP Gen2 or MSPNP Pro from DIYAutotune/AMPEFI.

1. Make sure the jumper J1 is installed. This provides 5v on pin #9 of the serial connector.
2. On the right of the #1 jumper, there is a resettable fuse. This limit the current on the serial pin. The current consumption of the WiFi module is around 50mA but on the power up, it can peak a bit higher than what the fuse is rated for. This create a voltage drop and stop the wifi module from working properly. If you have issues like you cannot find the WiFi Hotspot, this could be the reason. You can simply bypass it.



Troubleshooting

- When powered, the led will blink 3 times and then stay solid. If the led dont turn on, check the supply voltage and ground.
- If led is solid green, device is waiting for a connection on Bluetooth or WiFi.
- When communication is established the led with blink fast if Bluetooth connection is active and blink slow if WiFi connection is active.