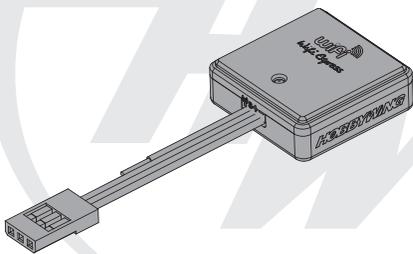




Thank you for purchasing this HOBBYWING product! For avoiding any possible troubles that you may have in use, please take time to read through this manual before the use. In addition, please note the use conditions and technical parameters of this product.

wifi Wifi Express USER MANUAL



01 Introduction

WiFi Express is a module which adopted the WiFi communication technology for transferring data between an ESC and a smart device (Android phone, tablet, and etc). It makes the wireless communication between ESC and smart device possible; user can easily program and upgrade ESC, and monitor data transferring via this unit.

02 Specifications:

- Working Voltage: 5V-12.6V.
- WiFi Protocol: IEEE802.11 b/g/n
- WiFi Signal Effective Range: 0-10m (Open Field).
- Size: 25.7x25.7x8.8mm (LxWxH).
- Weight: 11.3g.

03 Applications

The WiFi Express module works with the following products of HOBBYWING.

- XERUN series & EZRUN series of car ESCs.
- PLATINUM series of aircraft ESCs.
- Other ESCs which are compatible with HOBBYWING multifunction LCD program box.

04 Features

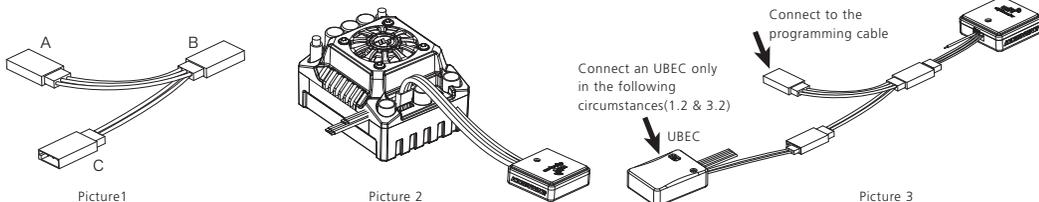
- Tri-color(White /Red/Black) cable: to connect the programming port on the ESC or one end of the Y harness.
- Grey color line: it's the antenna to enhance the WiFi signals.
- LED light: to indicate the working status of WiFi Express.
- RESET button: to factory reset this WiFi Express module.



05 User Guide

1 How to Connect WiFi Express to Different ESCs

The way to connect WiFi Express to ESC may vary because of different ESC hardware design. The following are the ways to connect WiFi Express to different ESCs, about which way you should take, please refer to the user manual of your ESC. In some case, the special Y harness (As shown picture 1: with three female connectors not two female connectors and one male connector) included in the package may be needed for connecting the WiFi Express to ESC.



- For ESC with the throttle cable and programming cable multiplexed.**
 - 1.1 For ESC with built-in BEC: in this case, a piece of Y harness is needed to connect the WiFi module and ESC. To be specific, connect the ESC throttle cable and WiFi tri-color cable to connector A and connector B of the Y harness respectively (as shown picture 3).
 - 1.2 For ESC without built-in BEC (so-called OPTO version): in this case, a piece of Y harness is also needed to connect the WiFi module and ESC. To be specific, connect the ESC throttle cable and WiFi tri-color cable to connector A and connector B of the Y harness respectively. And connect the remaining end (/connector C) of the Y harness to an UBEC to power the WiFi module (as shown picture 3).
 - For ESC that the fan port (on the ESC) is also the programming port**
In this case, please unplug the fan wire first, and then plug the tri-color cable on the WiFi Express to the fan/programming port (as shown picture 2).
 - For ESC with a separate programming cable**
 - 3.1 For ESC with the programming cable which has the output voltage of 5-12.6V: in this case, a piece of Y harness is needed to connect the WiFi module and ESC. To be specific, connect the ESC throttle cable and WiFi tri-color cable to connector A and connector B of the Y harness respectively (as shown picture 3).
 - 3.2 For ESC with the programming cable which has no output voltage: in this case, a piece of Y harness is needed to connect the WiFi module and ESC. To be specific, connect the ESC programming cable and WiFi tri-color cable to connector A and connector B of the Y harness respectively. And an UBEC is needed to power the WiFi module, connect the remaining end (/connector C) to the battery (as shown picture 3).
 - For ESC with a separate port for programming**
Plug the WiFi module directly into the programming port on ESC(as shown picture 2).
- Note: An extra battery(5-12.6V) can replace the UBEC mentioned above.**

2 How to power on the WiFi Express

Connect the ESC to a battery after it's connected to the WiFi module, and then turn it on. The Red LED will come on solidindicating the WiFi Express is entering the working mode.

3 How to build the wireless connection between a smart phone and the WiFi Express

- (1) Check all available WLANs shown on your smart device.
- (2) Find out the SSID (the WiFi name) named HW-WIFILINK, enter the initial password "12345678" and then click "connect".



You must change the SSID name after the very first successful connection. Because the SSID and password of all the HOBBYWING WiFi modules are the same, connection failure or misconnection issue may happen if multiple WiFi modules function at the same time.

4 How to make change to ESC & WiFi Express via the Hobbywing WiFi Express App software installed on your smart device

Start the Hobbywing WiFi Link App software on your smart device after it's connected to the WiFi Express, then the following interface will show up. Users can program or upgrade their ESCs via the App. (For detailed information, please refer to the user manual of HOBBYWING WiFi Link App).

- WiFi Connection Status**
The ESC icon (at the top right corner on the user interface of the App) will turn Black if the the smart device is successfully connected to the to the ESC. Otherwise, it will stay Grey (as shown right).



- How to change the factory-default SSID (the WiFi name) & password**
 - Click the "Settings" icon and get into the "Setting page" (as shown right).
 - Click "WiFi Module Setting" and get into the "WiFi Setting" page, input the new WiFi name, new password and then click "Save".



06 Explanations for LED Status

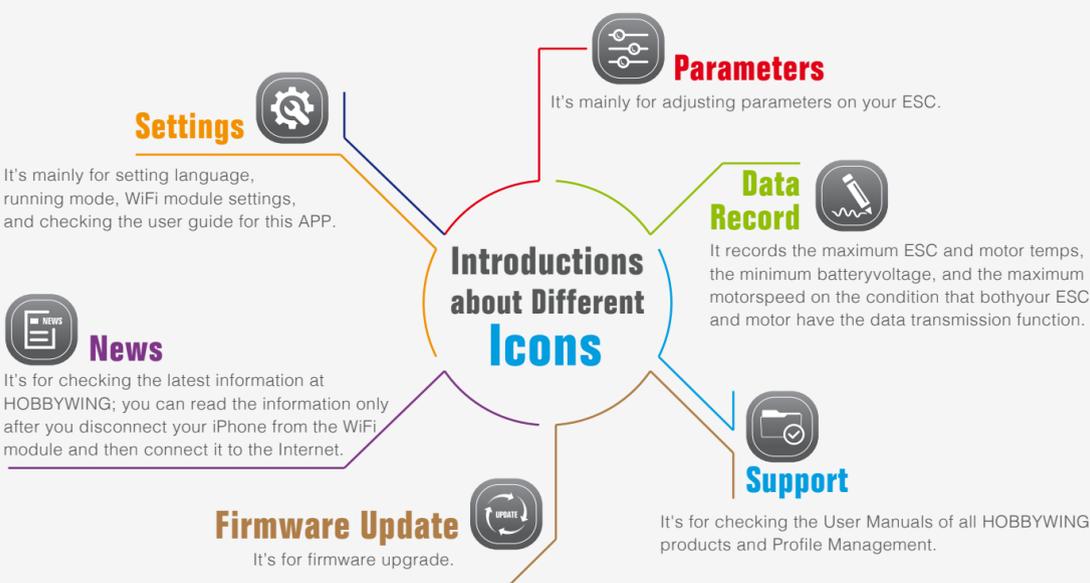
LED turns on solid RED indicating the WiFi Express is successfully powered on and it functions well.

LED blinks indicating the WiFi Express is building the connection or transferring data between the ESC and the smart device.

07 Factory Reset

Keep holding the RESET button with a thin and sharp thing like toothpick or something for about 15 seconds, then you can reset all parameters of the Wifi Express to factory default values.

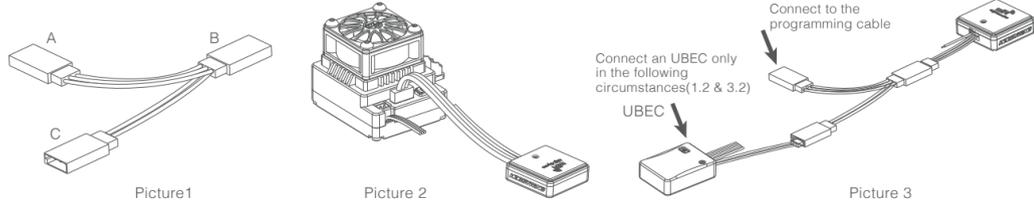
User Guide WIFI LINK APP



Connections

01

The way to connect WiFi Express to ESC may vary because of different ESC hardware design. The following are the ways to connect WiFi Express to different ESCs, about which way you should take, please refer to the user manual of your ESC. In some case, the special Y harness (As shown picture 1: with three female connectors not two female connectors and one male connector) included in the package may be needed for connecting the WiFi Express to ESC.



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3. For ESC with a separate programming cable.

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4. For ESC with a separate port for programming.

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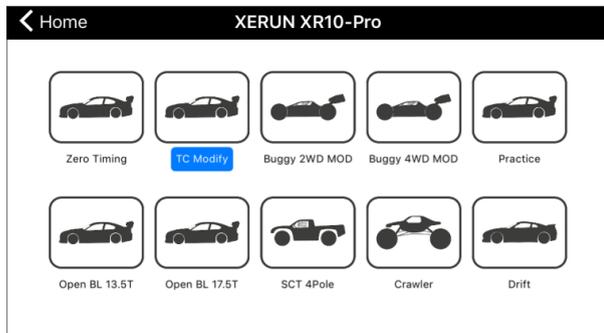
Note: An extra battery (5-12.6V) can replace the UBEC mentioned above.

Click the ESC icon in the upper right corner on the home screen to "connect" your ESC to the WiFi module. You will see the icon radiates like this if the connections are succeeded.

Detailed Information about Different Icons

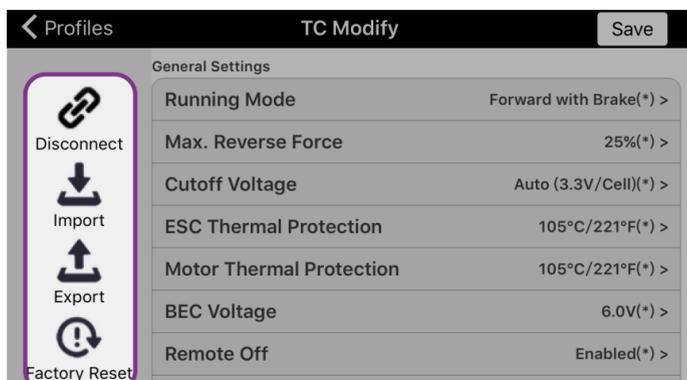
02

Let's take XERUN XR10 Pro as an example, click the "Parameters" icon and select one out of the following ten preset modes as needed. (You may need to select one preset profile (out of ten) due to the chassis you're using or the class you're competing at, please select or set the preset profile as per the actual situation)



You will see the following page after you select the "TC Modify" mode.

"Disconnect/Import/Export/Factory Reset" four main options are displayed on the left. Items displayed on the right are programmable, you can click the relevant items and select the corresponding options as needed.



Disconnect: disconnect your ESC from the WiFi module.

Import: Import all the parameters (you previously set) from the memory of your iPhone to "Settings".

Select and import the relevant file can restore all the parameters you previously set if you have made a backup earlier. It will be blank if there is no backup.

Export: export all the parameters (you previously set) to the memory of your iPhone. The parameters can be exported in file or photo format.

File format: easy to edit the file on a PC (enter a name for the parameter file in the pop-out box after you select this "file" format).

Photo format: convenient to share the photo with other people on Wechat, FACEBOOK or other social networks (fill in the blanks as requested and click "export" after you select this "photo" format).

Factory Reset: factory reset all the parameters on your ESC.

Data Record

Click the "Data Record" icon to enter the data recording interface. It records the maximum ESC and motor temps, the minimum battery voltage, and the maximum motor speed on the condition that both your ESC and motor have the data transmission function. (20 records can be stored in the APP, and the older data will be automatically removed in order if the records exceed 20.)

Support

Click the "Support" icon, you will see the "User Manual" & "Profile Management" options pop out.

User Manual: It's for checking the user manuals of Car, Aircraft, Boat and Drone Power systems (only after you disconnect your iPhone from the WiFi module and then connect it to the Internet).

Profile Management: Click the icon to check the parameter file you've exported.

Firmware Upgrade

Click the "Firmware Upgrade" icon to check the current version and targeted version (of the ESC firmware). When the targeted version is newer than the current version, you can decide whether to upgrade or not. If both versions are the same, then there is no need to upgrade.

News

Click the "News" icon to check the latest information at HOBBYWING (only after you disconnect your iPhone from the WiFi module and then connect it to the Internet).

Settings

Click the "Settings" icon, you will see the following information pops out.

Language: select between English and Chinese.

Running mode: switch between ESC-connected Mode and Demo Mode.

WiFi Module Settings: change the WiFi name and password if you want.

About: check the APP version and the database version.

Help: check the user guide for this APP.