

ELRS915-RX-TAA

ELRS 915MHz ExpressLRS Receiver Module with T-type Antenna, WIFI Upgradable for RC FPV Traversing Drones Parts

User Manual



rev: 260325
Made in Taiwan

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INTRODUCTION

The **ELRS915-RX-TAA ELRS 915MHz ExpressLRS Receiver Module with T-type Antenna, WIFI Upgradable for RC FPV Traversing Drones Parts** is a long-range wireless receiver module based on the open-source ExpressLRS protocol, supporting from 868MHz to 915MHz frequency bands. It delivers ultra-long range, stable link performance, and ultra-low latency, providing a professional-grade control experience for RC FPV drones and other remote-control models.

This receiver is designed to work seamlessly with any ExpressLRS-compatible transmitter 915 module, such as those used with Radiomaster TX16S, Jumper T12/T16/T18, and other transmitters running OpenTX or EdgeTX. With built-in WiFi upgrade support, firmware updates and configuration can be performed easily through the ExpressLRS Configurator or web interface.

It offers reliable performance, convenient setup, and a plug-and-play experience when paired with an ExpressLRS transmitter.

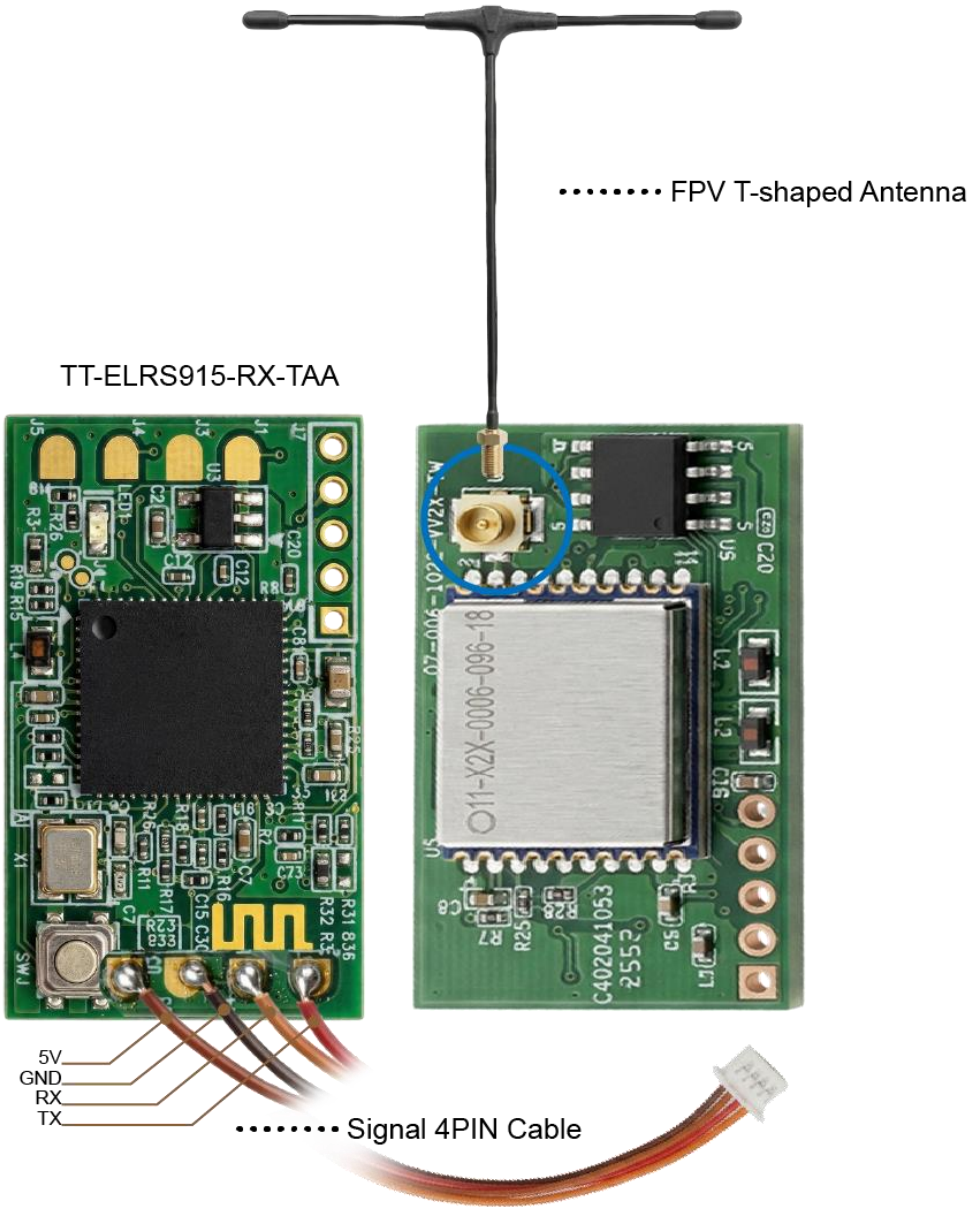
PACKAGE CONTENTS

- 1x ELRS915-RX-TAA
- 1x FPV T-shaped antenna
- 1x signal 4-pin cable

FEATURES

- RF Frequency: 915Mhz
- IC: SX1276+ESP8285
- TX Power: 100mW
- Connector: IPEX 1
- Input Power: 3.6-5.5V
- Dimension: 19x13mm
- Weight: ??

PIN DESCRIPTION



CONFIGURED HARDWARE OPTIONS

Configured through the Web interface

1. Steps to Access the Web Configuration Interface

Before powering on the ExpressLRS receiver, make sure your ExpressLRS transmitter module is turned off. If the transmitter is on, the receiver may automatically bind to it, preventing Wi-Fi access.

- (1) Turn on your computer's Wi-Fi.
Make sure the wireless adapter is enabled.
- (2) Wait for the list of available networks to appear.
The system will automatically scan for nearby Wi-Fi networks.
- (3) Look for a network named "**ExpressLRS RX**".
It may take a few seconds to appear.
- (4) Click on ExpressLRS RX and enter the password "**expresslrs**" to connect.
- (5) Once connected, open a web browser and go to "**http://10.0.0.1**".
This will open the ExpressLRS configuration page.

Note: LED Indicator

LED Behavior	Mode	Explanation
Slow Blink	ELRS Mode	Receiver is in ELRS mode, waiting to bind or already bound (but no signal).
Fast Blink	Wi-Fi Mode	Receiver is in Wi-Fi mode, ready for configuration via web interface.

2. Web Interface Overview

(1) MODEL

The screenshot shows the 'MODEL' configuration page in the ExpressLRS web interface. At the top, there are navigation tabs: 'MODEL' (selected), 'OPTIONS', 'WIFI', and 'UPDATE'. The page is divided into several sections:

- Binding Phrase:** Includes a checkbox for 'Never store bind information across reboots (volatile binding)'. Below it, a text input field for the binding phrase is shown with the value '31,102,124,121,252,130'. A status message indicates the receiver is bound and waiting for connection.
- Serial Protocol:** Includes a text input field for the serial protocol, currently set to 'CRSF'.
- Model Match:** Includes a checkbox for 'Enable Model Match' and a text input field for the 'Model ID'.
- Force telemetry off:** Includes a checkbox for 'Force telemetry OFF on this receiver'.

At the bottom of the page, there is a 'SAVE' button and a link to 'Reset all model settings to defaults (includes binding)'.

- Binding Phrase
 - If you check "Never store bind information across reboots", the system will not save the binding information, and it will be lost after a reboot.
 - Enter a custom phrase (any combination of letters and numbers) in the "Binding Phrase" input field.
 - The system will generate a Binding UID
- Serial Protocol
 - Click on the "Serial Protocol" field to open a dropdown menu(CRSF · Inverted CRSF · SBUS · Inverted SBUS · SUMD · DJI RS Pro · HoTT Telemetry). From the list, select the serial protocol you want to use to communicate with the flight controller or other external devices.
- Model Match
 - Enable/Disable model match
 - When "Enable Model Match" is checked, enter the corresponding Model ID number in the field below. (Valid range: 0 to 63)
- Force telemetry off
 - When "Force telemetry OFF on this receiver" is checked, this receiver will not send any telemetry data back to the transmitter.
 - When it is unchecked, this receiver can send telemetry data according to the transmitter's telemetry settings.
- "SAVE" button
Clicking the "SAVE" button will save all the changes you made on this page.
- Reset all model settings to defaults

(2) OPTIONS

MODEL
OPTIONS
WIFI
UPDATE

Runtime Options

This form **overrides** the options provided when the firmware was flashed. These changes will persist across reboots, but **will be reset** when the firmware is reflashed.

Regulatory domain
FCC915

WiFi "auto on" interval in seconds (leave blank to disable)
10

UART baud
420000

Lock on first connection
 Use as AirPort Serial device

SAVE

RESET RUNTIME OPTIONS TO DEFAULTS

- Runtime Options

This page allows you to override certain settings provided during the firmware flash. These changes will persist across reboots but will be reset when the firmware is reflashed.

 - Regulatory domain
Click on the "Regulatory domain" field to open a dropdown menu(AU915 · FCC915 · EU868 · IN866 · AU433 · EU433 · US433 · US433-Wide). From the list, select the regulatory domain you want to use.
 - WiFi "auto on" interval
Time interval in seconds for automatically turning WiFi on. Leave blank to disable this feature.

- UART baud
Sets the communication speed for the UART interface.
- Lock on first connection
When enabled, the device locks to the first successful connection and won't switch to others.
- Use as AirPort Serial device
Option to use the device as an AirPort Serial device (specific use depends on system).
- "SAVE" button
Clicking the "SAVE" button will save all the changes you made on this page.
- Reset Runtime Options to Defaults

(3) WIFI

MODEL
OPTIONS
WIFI
UPDATE

Currently in Access Point mode

Here you can join a network and it will be saved as your Home network. When you enable WiFi in range of your Home network, ExpressLRS will automatically connect to it. In Access Point (AP) mode, the network name is ExpressLRS TX or ExpressLRS RX with password "expresslrs".

- Set new Home network
- One-time connect to network, retain Home network setting
- Start AP mode, retain Home network setting
- Forget Home network setting, always use AP mode

WiFi SSID
SSID

WiFi password

CONFIRM

- **Currently in Access Point mode**
This page allows you to configure how the device connects to a WiFi network. When the device is in Access Point (AP) mode, it creates its own WiFi hotspot (SSID: ExpressLRS TX or ExpressLRS RX, password: expresslrs) so you can connect and configure it.
 - Set new Home network
Save a new WiFi network as your Home network. The device will auto-connect to it in the future.
 - One-time connect to network, retain Home network setting
Temporarily connect to a different WiFi network, but keep the current Home network saved.
 - Start AP mode, retain Home network setting
Start AP mode now, but keep the Home network settings saved for future use.
 - Forget Home network setting, always use AP mode
Clear all saved WiFi settings. The device will always start in AP mode.
- **WiFi SSID**
Enter the name of your WiFi network.
- **WiFi password**
Enter the password for the network.
- **"CONFIRM" button**
Click the "CONFIRM" button to apply the selected WiFi mode and credentials.

WARRANTY

The SELLER warrants the **ELRS915-RX-TAA ELRS 915MHz ExpressLRS Receiver Module with T-type Antenna, WIFI Upgradable for RC FPV Traversing Drones Parts** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the ELRS915-RX-TAA features and specifications is subject to change without further notice.**