



# IFLIGHT F011801 Commando 8 ELRS Radio Transmitter User Manual

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User Manual**

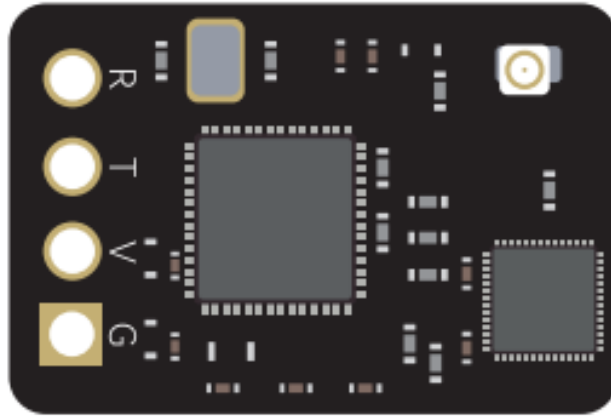


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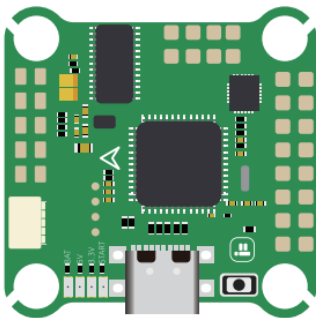
## iFlight ELRS User Manual

**Receiver Pinout:**



**RX:** Receiving serial port  
**TX:** Transmitting serial port  
**5V:** 5v power supply  
**GND:** GND/Ground

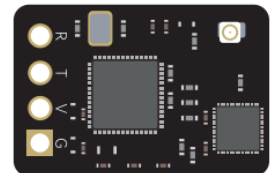
#### Wiring Diagram



TX  
RX  
5V  
GND



RX  
TX  
5V  
GND



1. When using an F722/F7 45/H7 43 MCU connect any free UART on your flight controller.
2. When using an F411/F405 MCU connect to any uninverted UART. The blue LED will be always on if connected to an inverted UART indicating an error.

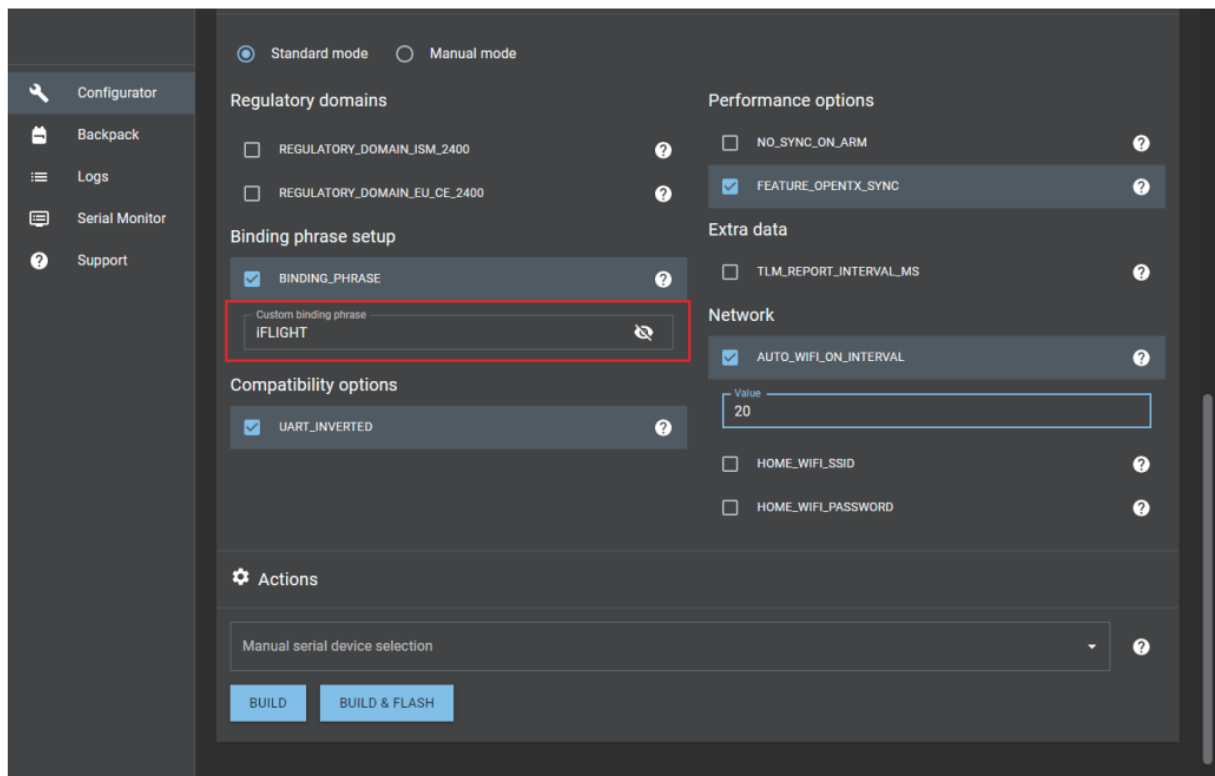
If you want to use inverted UARTs (SBUS, R2i, nR2, RT2) the firmware needs to be set up with the additional RCVR-INVERTTX setting in the ELRS Configu rate.

#### **ELRS Bind and Firmware updates:**

There are two options to bind (link) your radio to the receiver:  
 Binding phrase or traditional bind sequence

#### **Binding phrase:**

1. Set a custom binding phrase when flashing the firmware to the receiver and radio to automatically link when powering on. No additional bind sequence is needed. Make sure to set up a unique binding phrase to avoid issues with other pilots!



For specific information please visit the official ExpressLRS website or the video tutorial on the iFlight Bilibili.

## Traditional Bind sequence

Power on the receiver, plug, and unplug it three times in a row. The receiver will enter bind mode and the LED starts to double flash blue. Set your radio into bind mode as well or enter the ExpressLRS LUA script to activate bind mode to finish the process.

## A. Appendix A

### A.1. Requirement of FCC KDB 996369 D03 for module certification:

#### 1.1 List of applicable FCC rules:

The module complies with FCC Part 15.249

#### 1.2 Summarize the specific operational use conditions:

The module has been certified for Fix, Mobile, and Portable applications. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### 1.3 Limited module procedures:

The module has not its own RF shielding, which belongs to the Limited module Standard and requires Clear and specific instructions describing the conditions, limitations, and procedures for third parties to use and/or integrate the module into a host device (see Comprehensive integration instructions below). Resolve: Supply example as follows

## Installation Notes:

1. C8RX2400Module Power supply range is DC 1.8V~5.6V, when you use the C8RX2400 Module design product, the power supply cannot exceed this range.
2. When connecting the Module to the host device, the host device must be powered off.
3. Make sure the module pins are correctly installed.
4. Make sure that the module does not allow users to replace or demolition.

### 1.4 Trace antenna designs:

Not applicable.

### 1.5 RF exposure considerations:

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

**Note:** the host product manuals must include a statement in order to alert the users of FCC RF exposure compliance.

### 1.6 Antennas:

Antenna Type	PIFA antenna
Antenna Gain	3.30 dBi(Max)

### 1.7 Label and compliance information

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The system integrator must place an exterior label on the outside of the final product housing the 2A5BE-C8RXELRS Modules. Below is the content that must be included on this label.

The host product Labeling Requirements:

**NOTICE:** The host product must make sure that FCC labeling requirements are met. This includes clearly visible exterior label on the outside of the final product housing that displays the contents shown in below:

**Contains FCC ID: 2A5BE-C8RXELRS**

**1.8 Information on test modes and additional testing requirements:**

When testing the host products, the host manufacturer should follow FCC KDB Publication 996369 D04 Module Integration Guide for testing the host products. The host manufacturer may operate their product during the measurements. In setting up the configurations, if the pairing and call box options for testing do not work, then the host product manufacturer should coordinate with the module manufacturer for access to test mode software


**1.9 Additional testing, Part 15 Subpart B disclaimer:**

The modular transmitter is only FCC authorized for the specific rule parts (FCC Part 15.249) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed when contains digital circuitry.

**1.10 Information on test modes and additional testing requirements:**

When testing the host products, the host manufacturer should follow FCC KDB Publication 996369 D04 Module Integration Guide for testing the host products. The host manufacturer may operate their product during the measurements.

## Documents / Resources

	<p><a href="#">IFLIGHT F011801 Commando 8 ELRS Radio Transmitter</a> [pdf] User Manual C8RXELRS, 2A5BE-C8RXELRS, 2A5BEC8RXELRS, F011801 Commando 8 ELRS Radio Transmitter, F011801, Commando 8 ELRS Radio Transmitter</p>
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