



BOTLINK 1

Express LRS

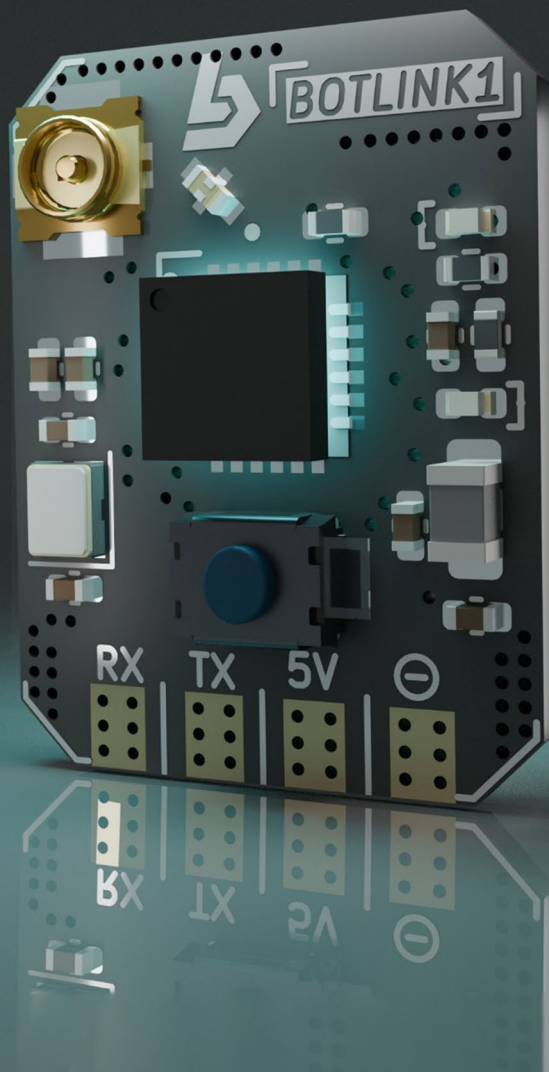
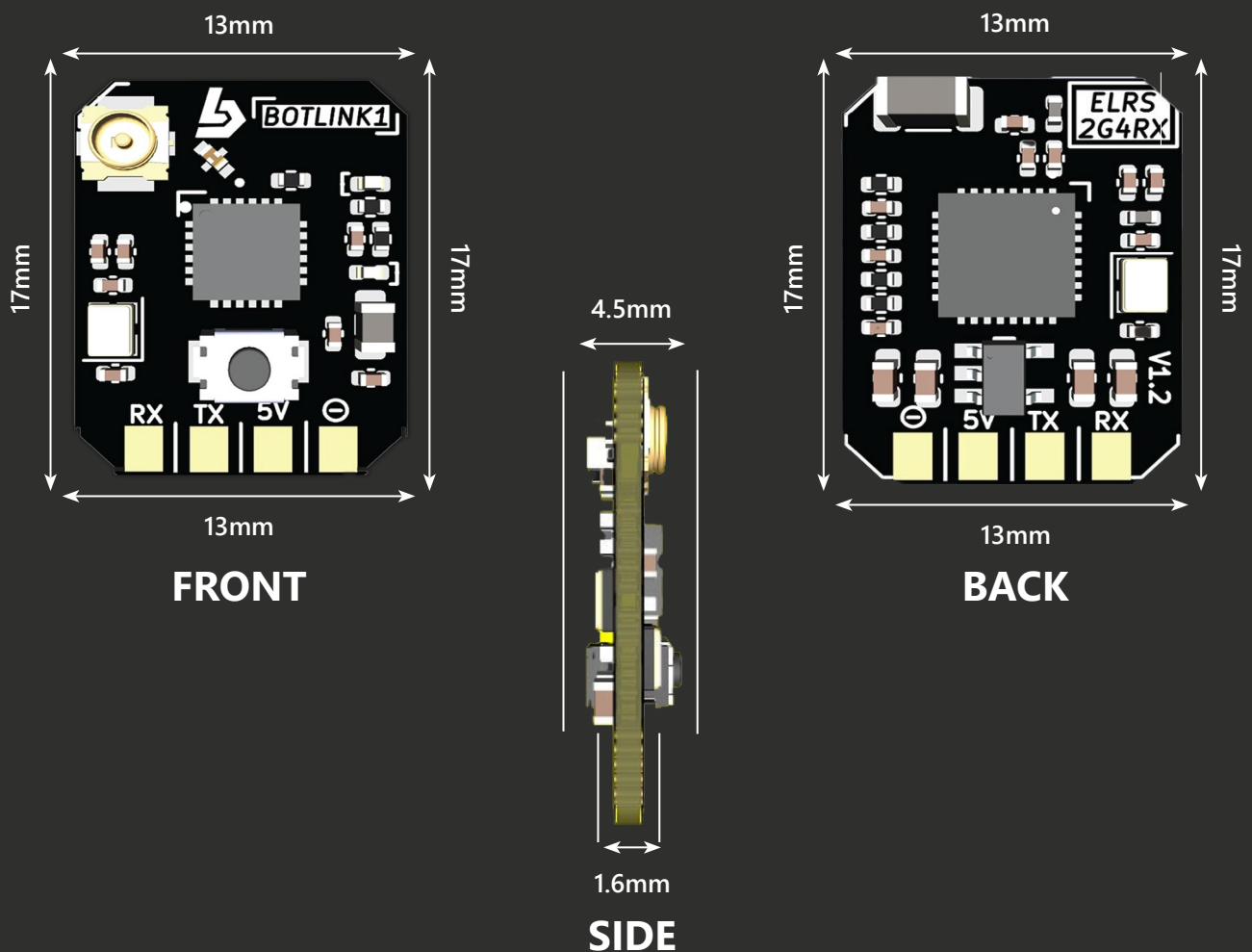


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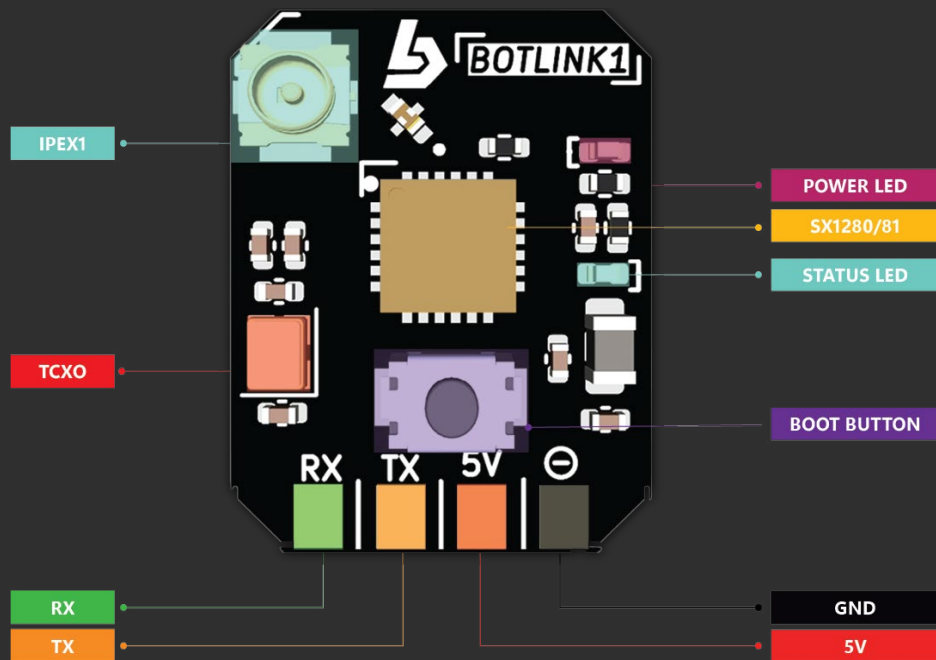


About BOTLINK 1

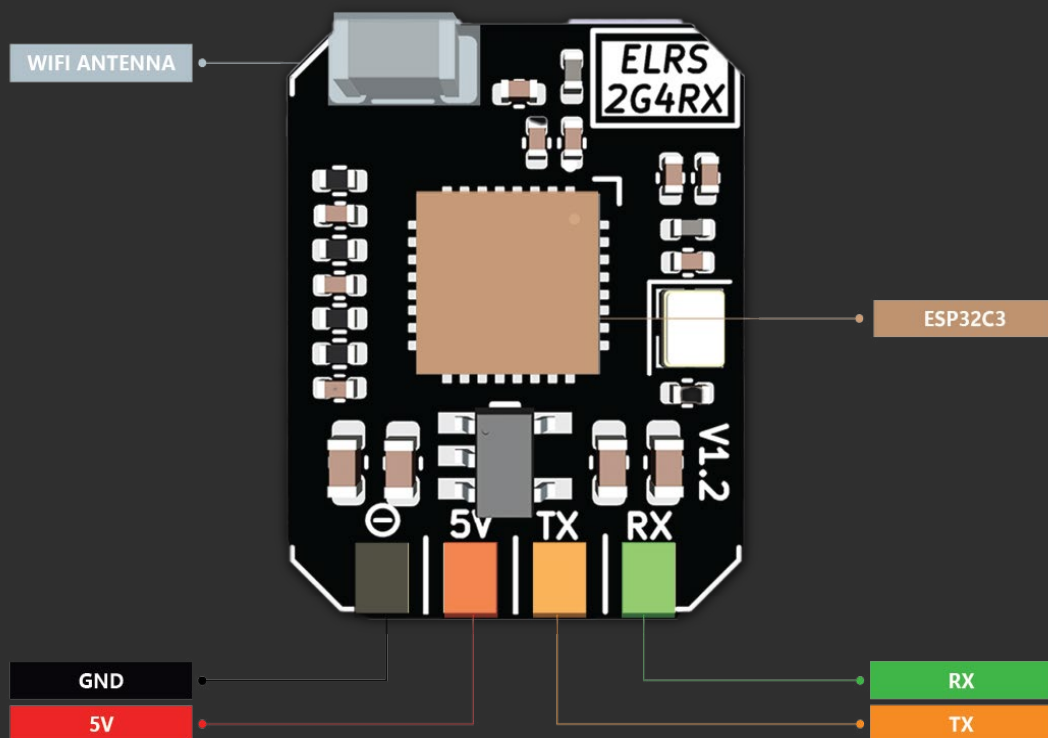
The BOTLINK1 ExpressLRS Receiver is a high-performance, compact 2.4GHz receiver designed for superior link reliability and ultra-low latency, making it ideal for demanding FPV and UAV applications. Powered by the ESP32C3 MCU and Semtech SX1280 transceiver, it supports the robust and feature-rich ExpressLRS protocol.

Equipped with an upgraded rigid 2.4GHz T antenna for enhanced durability and range, the BOTLINK1 also integrates a temperature-compensated crystal oscillator (TCXO) for excellent frequency stability across various environments. It is fully compatible with all ExpressLRS 2.4GHz transmitters and modules.

Layout



FRONT



BACK

Specification

Type	ISM2.4
MCU	ESP32C3
RF Chip	SX1280
Antenna	2.4GHz T Antenna
Frequency Range	2.400 - 2.479GHz
Telemetry Power	10mW
Maximum Packet rate	500Hz/F1000Hz
Minimum Packet refresh rate	25Hz
Working voltage	5V
Weight	1.18g (without antenna)
Dimension	17mm * 13mm * 4mm
Firmware Version	ExpressLRS v3.5.1 pre-installed
FW Target	BOTLINK1 2.4 RX**
Bus interface:	CRSF

Package Include



1 x T-Antenna

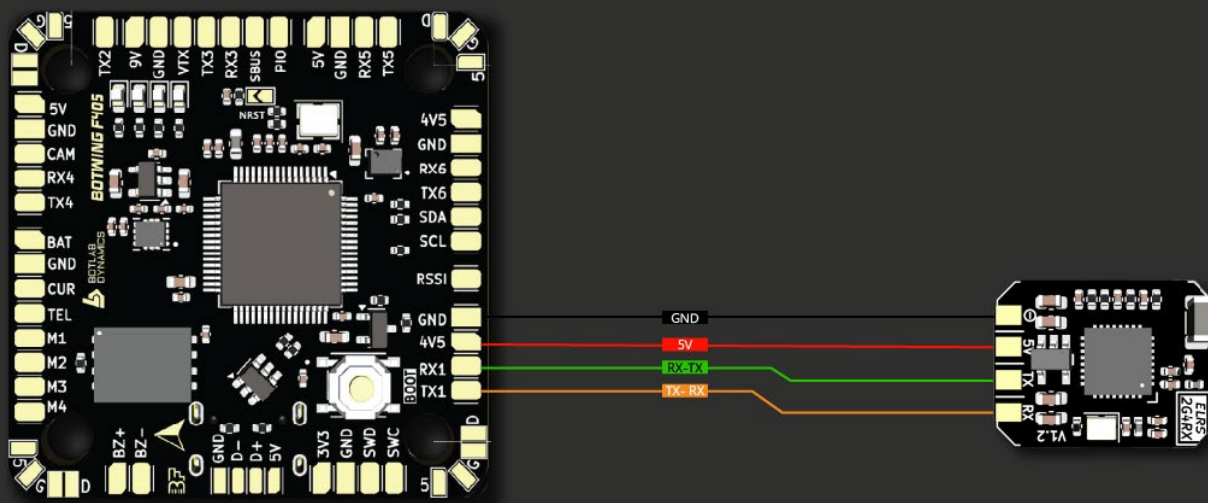


**1 x 80 mm length
(4pin cable)**



3 x Heat shrink tube

Connections



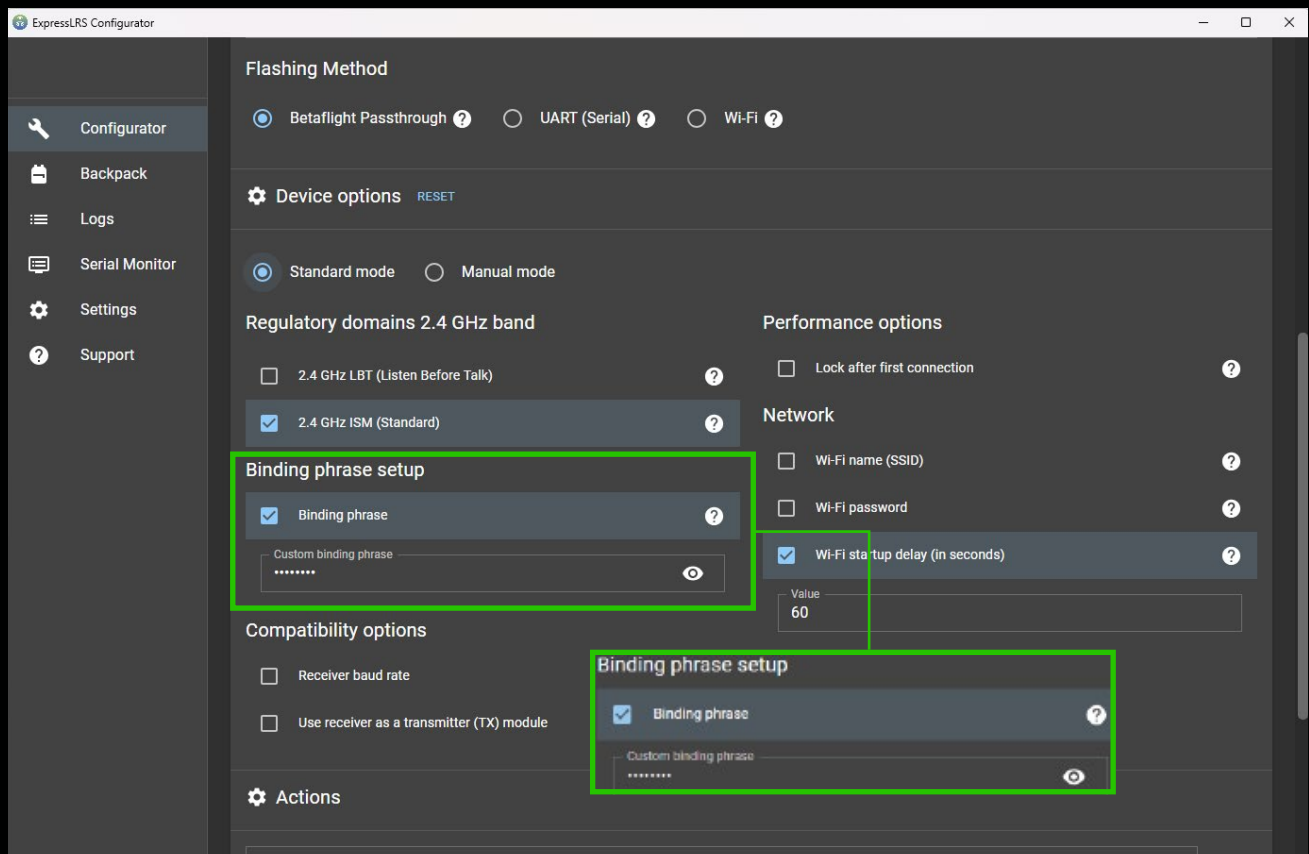
FC-ELRS

Binding

There are **TWO** methods to Bind an ExpressLRS TX Module and a Receiver:

1. Using a unique Binding Phrase

You can select a short and simple Binding Phrase for your devices before flashing or updating using the field in the ExpressLRS Configurator.



Alternatively, you can also change the Binding Phrase via the WebUI if your device has WiFi capabilities and is already updated to ExpressLRS 3.0 or newer. See this page for the WebUI User's Guide.

OPTIONS

Runtime Options

Binding Phrase

Binding Phrase

UID Flashed (Auto updated by changing the bind-phrase above)

85,132,48,83,229,41

WiFi "auto on" interval (s)

60

We recommend using a unique phrase with at least 8 alpha-numeric characters. The best candidate is your Pilot Handle. This phrase need not be complicated or super-secret as it isn't a password or encryption key.

1. The Traditional Binding Method

For traditional binding to work, a Binding Phrase must not be set, at least for the Receiver

Updated on 3.4.0

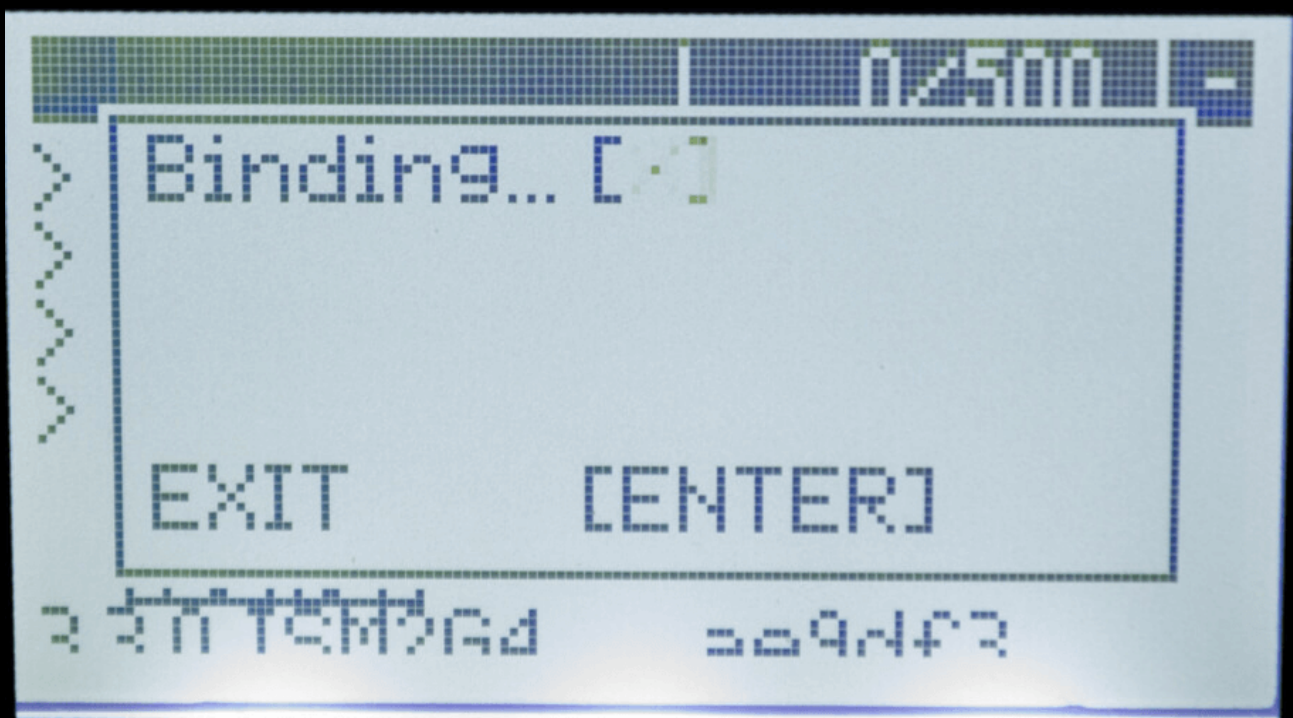
Any Receiver flashed with 3.4.0 or newer can be put into Bind Mode, even with a set Binding UID.

Notice

A Receiver flashed or set with a Binding Phrase WILL NOT initiate Manual Binding mode, however many times you try the procedure below. You must first reflash the receiver with the Binding Phrase field disabled and/or unset. Why would you not use a bind phrase though if you're already having to flash the RX anyway?

The procedure is as follows:

- Power off your transmitter/radio.
- Press the bind button for 1.5s on Receiver itself
- Then it goes into double blink then pause status.
- It shows the receiver is in binding mode.
- Power up your transmitter/radio and use the [BIND] button on the ExpressLRS Lua script, which sends out a binding pulse.
- The Popup will briefly show up and then disappear.



If the receiver LED turned into a solid light, it's bound!

Troubleshooting Guide

ExpressLRS uses the LED to communicate the status of the transmitter/receiver. The conditions and status LED are as follows:

Led Indication	Flight Mode Status
Solid on	Connected to a transmitter, or bootloader mode enabled
Double blink then pause	Binding mode enabled
Slow blink 500ms on/off	Waiting for connection from transmitter
Triple blink then pause	Connected to transmitter but mismatched model-match configuration
Medium speed blink 100ms on/off	Radio chip not detected
Fast blinking 25ms on/off	WiFi mode enabled

Reference

ExpressLRS GitHub page: <https://github.com/ExpressLRS>
Official ExpressLRS website: <https://www.expresslrs.org/>

Let's Connect

Please visit the botlabdynamics.store for manuals and support.