

ELRS Nano Receiver

User Manual



Product Introduction

GEPRC ELRS Nano receiver is a new generation remote control system developed based on the ExpressLRS open source project. ExpressLRS sets new standards for long-range connection, low latency and Maximum refresh rate of 500Hz.

GEPRC ELRS Nano receivers are available in 915/868MHz and 2.4GHz versions with maximum refresh rate of 500Hz and can be used with GEPRC ELRS-series products or other ELRS-compatible devices.

Specifications

Size: 17mm*11mm

Weight: 0.6g(receiver only)

Chips: ESP8285, SX1276(915M), SX1281(2.4G)

Frequency band: 915MHz FCC/868MHz EU/2.4GHz ISM

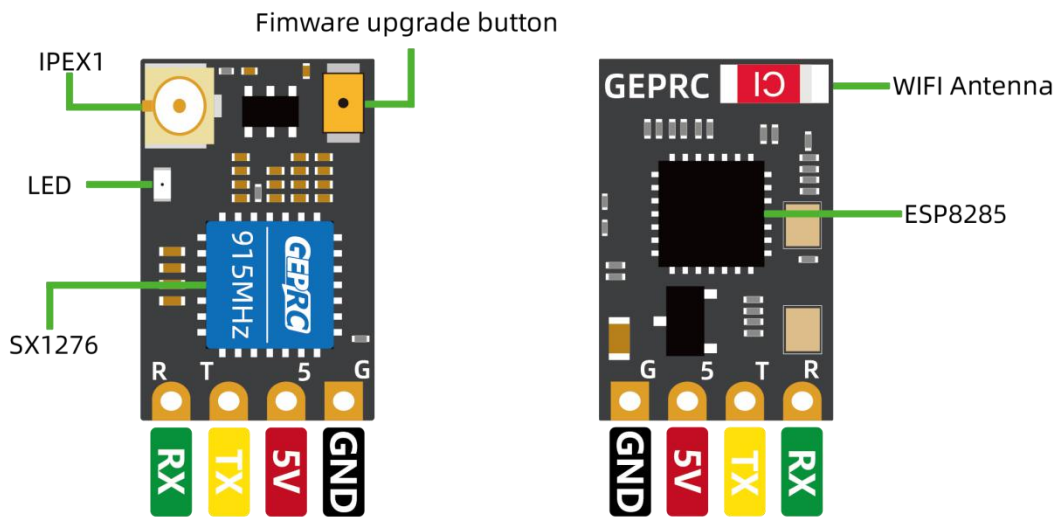
Refresh rate: 25Hz-500Hz

Input voltage: 5V

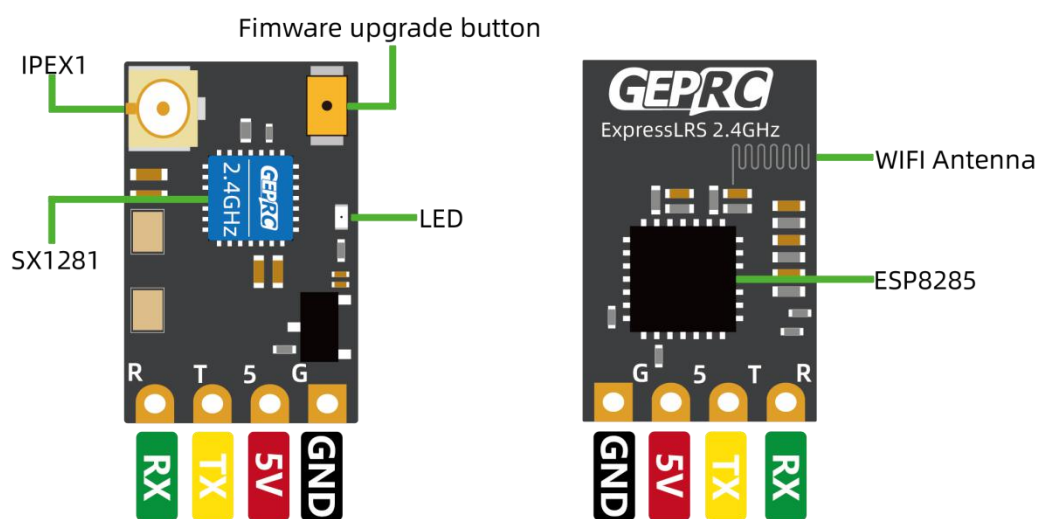
Antenna connector: ipex1

Nano Receiver diagram

915/868MHz



2.4GHz

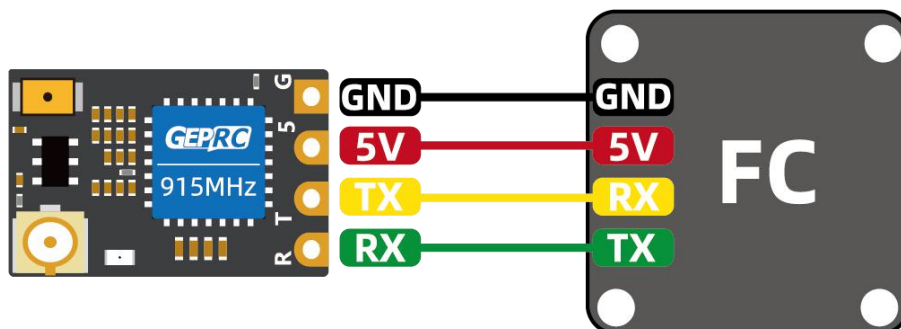


LED Status indication

LED Status	Meaning
Solide on	Connection established
Flash slowly	No Tx signal
Flash qucikly	WIFI mode
Flash double quickly	Binding status

Instructions

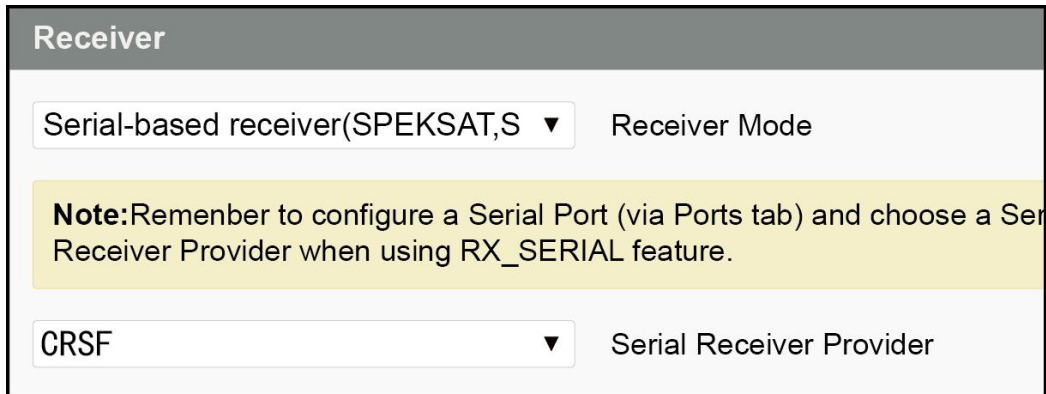
ELRS Nano receiver and FC connection diagram:



Open Betaflight Configurator, go to “Ports” tab and enable the corresponding UART as a Serial Rx (e.g. UART2 as shown below). Save and restart.

Identifier	Configuration/MSP	Serial RX
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART2	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>

On the “Configuration” tab, click on “Serial-based receiver” on the “Receiver” panel, and select “CRSF” .



The screenshot shows a configuration window titled "Receiver". At the top, there is a dropdown menu set to "Serial-based receiver(SPEKSAT,S)" with a label "Receiver Mode" to its right. Below this is a yellow note box containing the text: "Note: Remenber to configure a Serial Port (via Ports tab) and choose a Ser Receiver Provider when using RX_SERIAL feature." At the bottom, there is another dropdown menu set to "CRSF" with a label "Serial Receiver Provider" to its right.

Binding

1. The receiver is powered on and off for three consecutive times (within an interval of 1 second);
2. Receiver's LED doing double flashing, indicating that the receiver has entered the binding mode;
3. Make the RF Tx module or radio transmitter enter binding status. Once the LED status changes to solid light, the binding is successful.

About ELRS

ExpressLRS project is being constantly updated - the contents of this manual cannot be kept up-to-date in time. For more information, please visit the ELRS Project official.

github page:

<https://github.com/ExpressLRS/ExpressLRS>

Product list

1 x Nano receiver

1 x T antenna

2 x heat shrink tube

4 x silicone cable (black, red, yellow, green)

1 x pin (4pin)

1 x Instruction manual

Contact

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