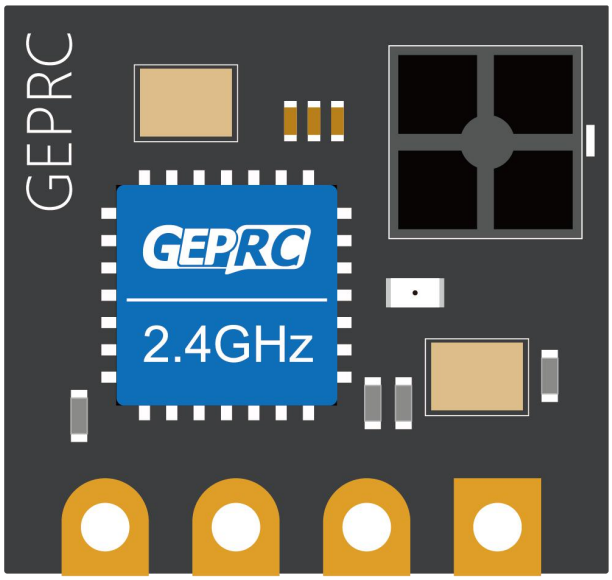


ELRS NanoSE Receiver

User Manual

Product Introduction

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

GEPRC ELRS NanoSE Receiver operates at a frequency of 2.4 GHz. Compared with Nano Receiver, NanoSE Receiver uses an Integrated SMD ceramic antenna, which further reduces its size while ensuring signal reception, making it more suitable for use on drones with limited space and light weight.

Specifications

Size：12.1mm*10.4mm

Weight：0.4g

Chips：ESP8285，SX1281

Frequency band：2.4GHz ISM

Refresh rate：25Hz-500Hz

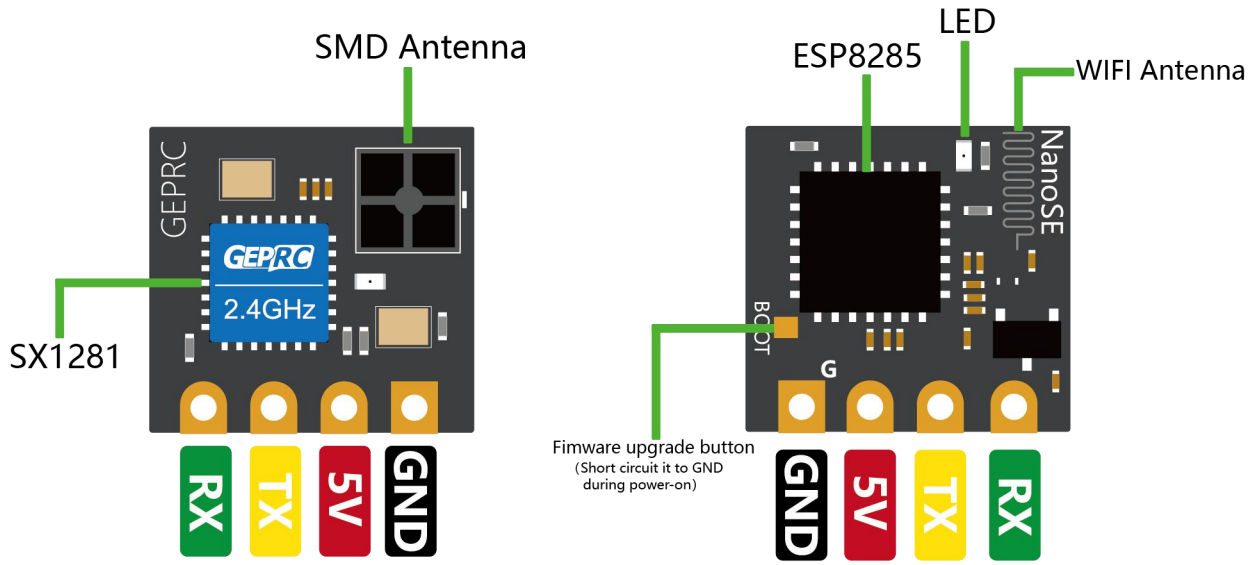
Input voltage：5V

Antenna：Integrated SMD Ceramic Antenna

LED Status indication

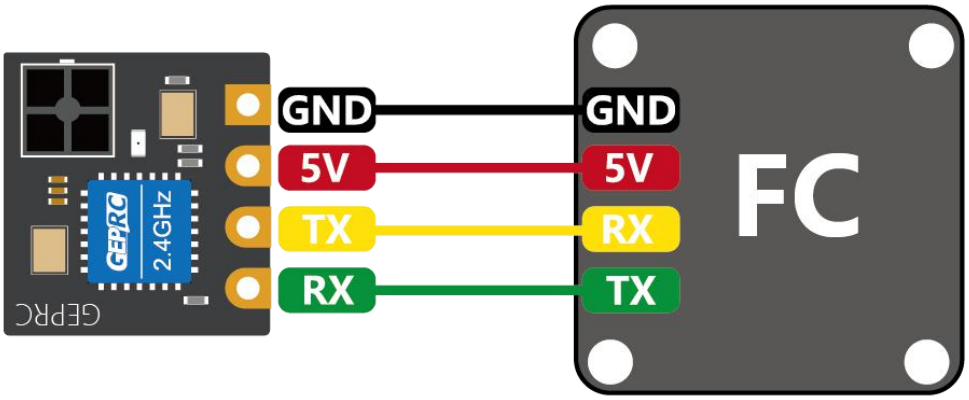
LED Status	Meaning
Solide on	Connection established
Flash slowly	No Tx signal
Flash qucikly	WIFI mode
Flash double quickly	Binding status

NanoSE Receiver diagram



Instructions

ELRS NanoSE 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	115200 ▼	
UART1	115200 ▼	
UART2	115200 ▼	

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

Receiver

Serial-based receiver(SPEKSAT,S ▼ Receiver Mode

Note: Remenber to configure a Serial Port (via Ports tab) and choose a Ser
Receiver Provider when using RX_SERIAL feature.

CRSF ▼ Serial Receiver Provider

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 NanoSE receiver

2 x heat shrink tube

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

1 x pin (4pin)

1 x Instruction manual

1 x Sticker

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