ELRS Nano PA500 接收机

使用说明书

V1.0

产品简介

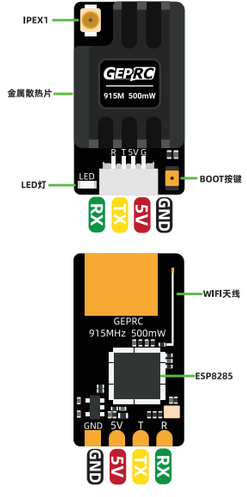
格普 ELRS Nano PA500 接收机是基于ExpressLRS开源项目所研发的新一代接收机系统。ExpressLRS具有长距离操控，低延时，价格便宜等特点。

格普 ELRS Nano PA500 接收机使用TCXO温度补偿晶体振荡器，无惧温度变化造成的频率偏移；集成大功率PA芯片，回传功率最高可达500mW；内置WIFI天线，可通过WIFI进行固件升级操作；自带sh1.0座子，安装更方便。

基本参数

尺寸：13x23x5.5mm
重量：1.9克(仅接收机)
芯片：ESP8285，SX1276
晶振：温补晶振
工作频段：915MHz FCC /868MHz EU
刷新率：25Hz-200Hz
工作电压：5V
天线接口：ipex1
回传功率：500mW
固件：GEPRC Nano 915M PA500 RX

接收机示意图

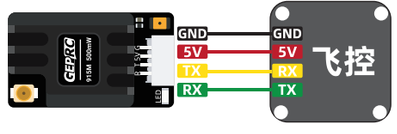


状态灯含义

LED灯状态	含义
常亮	绑定成功或连接建立
慢闪	无发射机信号
快闪	WIFI模式
双闪	对频状态
三闪	已对频，但“模型匹配”功能ID不一致

使用方法

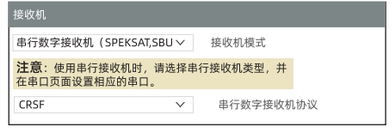
ELRS接收机和飞控连接示意图：



打开Betaflight 地面站，转到端口界面，根据焊接情况，开启对应端口的“**串行数字接收机**”开关(以端口2为例)，然后保存重启。

标识符	设置/MSP	串行数字接收机
USB VCP	115200	
UART1	115200	
UART2	115200	

设置接收机模式为“**串行数字接收机**”，并把串行数字接收机协议设置为“**CRSF**”。



对频操作

1.接收机连续通断电三次（间隔1秒内）；
2.观察接收机LED灯变为双闪，表示接收机已进入对频状态；
3.使用ELRS发射器和接收机对频，待接收机LED灯由双闪变为常亮，即对频成功。

关于ELRS

由于ExpressLRS项目更新的速度比较快，说明书中许多内容没法及时更新，更多内容欢迎访问ELRS项目库。项目库github地址：
https://github.com/ExpressLRS/ExpressLRS

产品清单

1 x ELRS 接收机
1 x 天线
1 x 热缩管
1 x 4pin 硅胶连接线
1 x 使用说明书

联系我们

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格普淘宝：https://geprc.taobao.com/
格普官方 QQ 交流群：499699918

ELRS Nano PA500 Receiver

User Manual

V1.0

Product Introduction

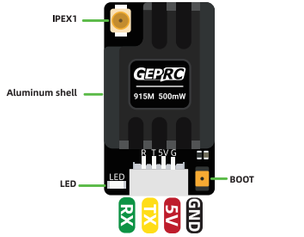
GEPRC ELRS Nano PA500 Receiver is a new generation receiver system based on ExpressLRS open source project.ExpressLRS features long range operation, low latency, and low price.

The ELRS Nano PA500 Receiver features a TCXO (temperature-compensated crystal oscillator) to prevent frequency shifts caused by temperature changes. It adopts an integrated high-power PA chip, boasting a telemetry power of up to 500mW. It features a built-in WIFI antenna, facilitating firmware upgrades effortlessly via WIFI, and offers convenient installation with its sh1.0 connector.

Specifications

Size: 13x23x5.5mm
Weight: 1.9g (RX only)
Chips: ESP8285, SX1276
Crystal Oscillator: TCXO
Frequency Band: 915MHz FCC /868MHz EU
Refresh Rate: 25Hz-200Hz
Input Voltage: 5V
Antenna Connector: ipex1
TLM Power: 500mW
Firmware： GEPRC Nano 915M PA500 RX

Receiver diagram

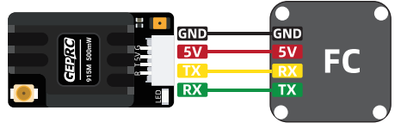


LED Status indication

Status	Meaning
Solide on	Connection established
Flash slowly	No Tx signal
Flash qucikly	WIFI mode
Double blink then pause	Binding status
Triple blink then pause	Connected to transmitter but mismatched model-match configuration

Instructions

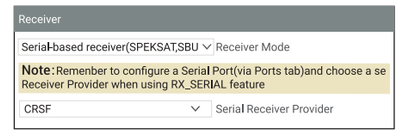
ELRS receiver and FC connection diagram:



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**".



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 ELRS receiver
1 x Antenna
1 x Heat shrink tube
1 x 4pin silicone cable
1 x User manual

Contact

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