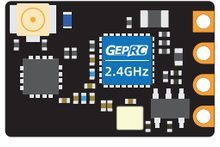
ELRS Nano 2.4G PA100 接收机

使用说明书



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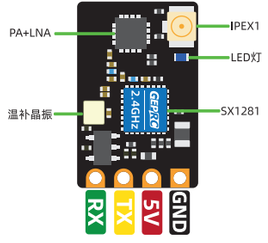
产品简介

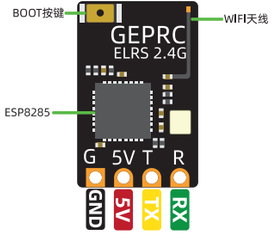
格普 ELRS Nano 2.4G PA100 接收机是基于ExpressLRS开源项目所研发的新一代2.4G接收机系统。ExpressLRS具有长距离操控，低延时，最高1000Hz刷新率，价格便宜等特点。
格普 ELRS Nano 2.4G PA100 接收机使用TCXO温度补偿晶体振荡器，无惧温度变化造成的频率偏移；集成PA+LNA，回传功率最高可达100mW；内置WIFI天线，可通过WIFI进行固件升级操作。

基本参数

尺寸：17x11mm
重量：0.7g(仅接收机)
芯片：ESP8285，SX1281
晶振：温补晶振
工作频段：2.4GHz ISM
刷新率：25Hz-1000Hz
工作电压：5V
天线接口：ipex1
回传功率：100mW

接收机示意图



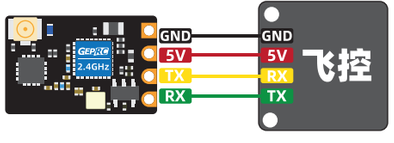


状态灯含义

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

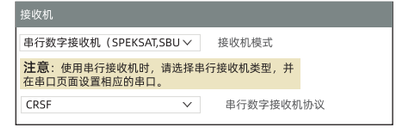
ELRS接收机和飞控连接示意图：



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 Nano 2.4G PA100 接收机
1 x 天线
1 x 热缩管
4 x 硅胶连接线
1 x 插针 (4pin)
1 x 使用说明书

联系我们

格普官网：https://geprc.com/
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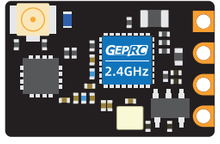
格普官方 QQ 交流群：499699918

ELRS Nano 2.4G PA100 Receiver

User Manual



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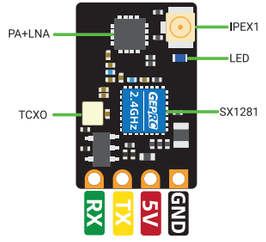
Product Introduction

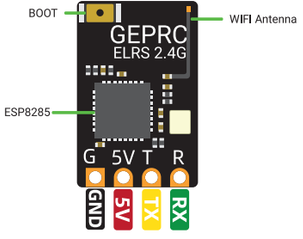
GEPRC ELRS Nano 2.4G PA100 Receiver is a new generation of 2.4G receiver system based on ExpressLRS open source project,ExpressLRS features long range operation, low latency, maximum 1000Hz refresh rate, and low price.
The ELRS Nano 2.4G PA100 Receiver uses a TCXO temperature compensated crystal oscillator to avoid frequency shifts caused by temperature changes;Integrated PA+LNA,the telemetry power is up to 100mW; Built-in WIFI antenna, firmware upgrade operation through WIFI.

Specifications

Size: 17x11mm
Weight: 0.7g (RX only)
Chips: ESP8285, SX1281
Crystal Oscillator: TCXO
Frequency Band: 2.4GHz ISM
Refresh Rate: 25Hz-1000Hz
Input Voltage: 5V
Antenna Connector: ipex1
TLM Power: 100mW

Receiver diagram



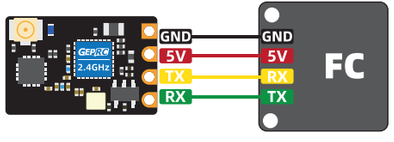


LED Status indication

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".

Receiver

Serial-based receiver(SPEKSAT,SBU Receiver Mode

Note:Remenber to configure a Serial Port(via Ports tab)and choose a se 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 ELRS Nano 2.4G PA100 Receiver
1 x antenna
1 x heat shrink tube
4 x silicone cable
1 x pin (4pin)
1 x Instruction manual

Contact

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