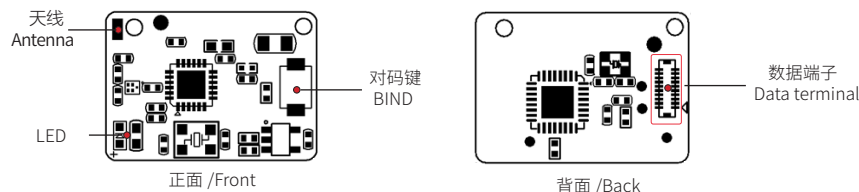


### 产品介绍 Introduction

FS-MiniZRF3 是一款采用 AFHDS 3 协议、专用于 Mini-Z EVO 小车的接收机，单天线单向传输，独特的迷你设计可节省安装空间。

The FS-MiniZRF3 is a receiver that uses the AFHDS 3 protocol and is dedicated to the Mini-Z EVO. It has a single-antenna, uses one-way transmission and features a unique compact design that saves space.

### 概览 Overview



数据端子：接收机与小车底板之间的数据传输接口。  
Data terminal: Data transmission interface between the receiver and the car floor.

### 产品规格 Product specification

- 产品型号: FS-MiniZRF3
- 适配车型: Mini-Z EVO 小车
- 适配机型: NB4 遥控器
- 无线频率: 2.4GHz
- 无线协议: AFHDS 3
- 遥控距离: >50m (空旷无干扰地面距离)
- 延时: 3ms
- 天线类型: 单天线
- 电源: DC 3.3V±0.1V
- 数据接口: UART
- 温度范围: -10°C—+60°C
- 湿度范围: 20%-95%
- 在线更新: 支持
- 外形尺寸: 20x14x3.5mm
- 机身重量: 2.5g
- 安规认证: CE, FCC

- Product Type: FS-MiniZRF3
- Model Type: Mini-Z EVO Car
- Applicable product: NB4
- RF: 2.4GHz
- 2.4GHz Protocol: AFHDS 3
- Distance: >50m (Range without interference with distance the ground)
- Latency: 3ms
- Antenna Type: Single antenna
- Power: DC 3.3V±0.1V
- Data Ports: UART
- Temperature Range: -10°C—+60°C
- Humidity Limit: 20%-95%
- Online Update: Yes
- Dimensions: 20x14x3.5mm
- Weight: 2.5g
- Certification: CE, FCC

### 对码 Binding

1. 将发射机进入对码状态; (发射机进入对码状态的方式可能不同, 请根据发射机的使用说明书进行操作)
2. 按住接收机对码键同时接通电源, LED 指示灯红色快闪即进入对码状态;  
接收机对码成功后, LED 指示灯红色常亮, 即可与发射机正常通信;  
接收机未对码或者掉码后, LED 指示灯红色慢闪;
3. 检查发射机、接收机、模型是否正常工作。如需重新对码, 请重复以上步骤重新对码。

1. First put the transmitter into bind mode (see the transmitter's user manual for instructions on how to activate bind mode.)
2. Press receiver's bind key and connect the receiver to power at the same time. The receiver's red LED will start to flash quickly indicating that it has entered bind mode.  
When the receiver's red LED stops flashing the transmitter and receiver have successfully bound.  
When the receiver's red LED flash slowly indicating losing signal.
3. Check to make sure that the transmitter and receiver are working as expected, if there are any issues or unexpected operation follow the steps above to bind again.

- 发射机高频设置中高频标准选择 Mini-Z(EVO).

- RF standard selection of transmitter RF setting Mini-Z (EVO).

### 强制更新 Forced update

发射机在更新完后, 如无法与接收机对码, 需强制更新接收机。

If the transmitter and receiver cannot be bound after the transmitter has been updated, then a forced update must be performed on the receiver.

1. 按住接收机对码键同时给接收机上电, 上电后继续长按 10S, 接收机进入等待强制更新状态, 指示灯慢闪;
2. 在发射机端选择更新接收机, 进入接收机更新状态, 此时接收机进入强制更新状态, 指示灯快闪;
3. 更新完成后:
  - 如接收机指示灯常亮, 则对码成功, 即可与发射机正常通信;
  - 如指示灯慢闪, 请进行对码操作。

1. Press and hold the receiver's bind and power buttons at the same time. Continue to hold bind buttons for 10 seconds after the receiver powers on. When the receiver enters forced update mode the status indicator will begin flashing slowly.
2. Select "Update Receiver" from the transmitter's "Receiver Set" menu. At this point the update will start and the receiver's status indicator will begin flashing rapidly.
3. After the update is complete:
  - The receiver's status indicator will stop flashing and remain on, the transmitter and receiver will be bound and should be working as expected.
  - If the status indicator starts flashing slowly again then bind the transmitter and receiver again.

### 失控保护 Failsafe

失控保护功能用于在接收机失去信号不受控制后, 接收机按用户设置好的失控保护值进行通道输出以保护模型及人员安全。

This function protects the user by preventing the model from behaving unexpectedly if signal is lost.

EVO 模式下发射机已默认设置好失控保护值, 用户不需自行设置。

In the EVO mode, the transmitter defaults to a preset failsafe profile so it is not required to set up a failsafe manually.

### 兼容性 Compatibility

该接收机兼容 Noble NB4 (EVO 模式)。

The receiver is compatible with Noble NB4(EVO).

### 注意事项:

- 使用前必须确保本产品与模型安装正确, 否则可能导致模型发生严重损坏。
- 关闭时, 请务必先关闭接收机电源, 然后关闭发射机。如果关闭发射机电源时接收机仍然在工作, 将有可能导致遥控设备失控或者引擎继续工作而引发事故。
- 确保接收机安装在远离电机, 电子调速器或电子噪声过多的区域。
- 接收机天线需远离导电材料, 例如金属棒和碳物质。为了避免影响正常工作, 请确保接收机天线和导电材料之间至少有 1 厘米以上的距离。
- 准备过程中, 请勿连接接收机电源, 避免造成不必要的损失。

### Attention:

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so may lead to unintended operation or loss of control.
- Make sure the receiver is mounted away from motors, electronic speed controllers or any device that emits excessive electrical noise.
- Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.

**认证相关 Certification****FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

**DoC Declaration**

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [FS-MiniZRF3] is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address: [www.flysky-cn.com](http://www.flysky-cn.com).

**CE Warning**

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

**Environmentally friendly disposal**

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

CAUTION  
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

