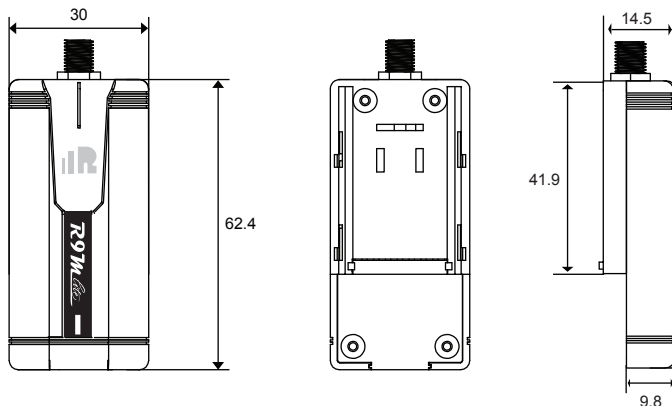


## Introduction

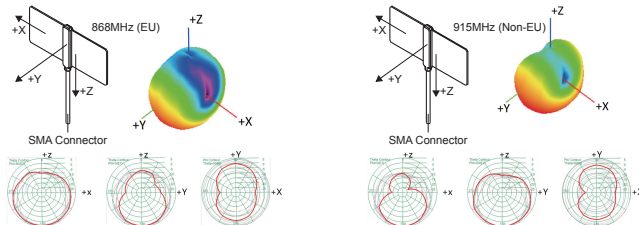
Thank you for purchasing FrSky R9M Lite telemetry module. Especially designed for FrSky Taranis X-Lite, it has low latency and high precision RC system. In order to fully enjoy the benefits of this system, please read the instruction manual carefully and set up the device as described below.

## Overview



## Zipp9 (868MHz) / Zipp9 (915MHz) Antenna

Recommended 900MHz optional high-gain antenna for achieving higher performance and further range.



## Specifications

- Dimension: 62.4mm × 30mm×14.5mm (L×W×H)
- Weight: 20g
- Channel: 16CH
- Operating Current: 100mA
- Upgrade Interface: Smart Port
- RF Operating Frequency: 868MHz
- Compatibility: R9 ACCESS Series Receivers
- RF Power: 25mW (with telemetry) / 100mW (without telemetry)



Smart Port (S. Port) is a signal wire full duplex digital transmission interface developed by FrSky Electronic Co., Ltd. All products enabled with Smart Port (including XJT module, RX8R receiver, new hub-less sensors, new Smart Dashboard, etc), serial port user data and other user input/output devices can be connected without limitations for numbers or sequences at a high transmission speed.

## Features

- Firmware upgradable on Taranis X-Lite
- Telemetry data transmission supported
- Long Range, Low Latency and High precision RC system

## LED State

Green LED	Red LED	Blue LED	Status
OFF	Flashing	OFF	Waiting To Binding
Flashing	ON	OFF	Normal
OFF	OFF	Flashing	Range Check

## Binding procedure

Binding is the process of uniquely associating a receiver to a transmitter RF module. A transmitter external RF module can be bound to multiple receivers (not to be used simultaneously). A receiver can only be bound to one RF module.

1. Put the transmitter RF module into binding mode

Turn on X-Lite, go to the MENU-MODEL SETUP—PAGE 2, choose External RF—Mode R9M—LBT, and select Bind (OpenTX 2.2.2 and its improved versions are strongly recommended).

2. Connect the battery to the receiver while holding its F/S button. The RED LED on the receiver will flash, indicating the binding process is completed.

3. Reboot the receiver and go back to normal mode of the transmitter RF module. The flashing of GREEN LED on the receiver indicating the receiver is receiving commands from the transmitter. Binding of the receiver/transmitter module will not have to be repeated unless one of the two is replaced.

**Note: After binding procedure is completed, resupply the power and check if the receiver is truly communicating with the transmitter.**

## Range Check

A pre-flight range check should be done before each flying session. Reflections from nearby metal fences, concrete buildings or trees can cause loss of signal during range check and flight. Under Range Check mode, RF power will decrease and Range distance will reduce to 1/30-1/10 that of Normal model.

1. Place the model at least 60cm (two feet) above non-metal contaminated ground (e.g. on a wooden bench). The receiver antenna should be in vertical position.

2. Turn on the transmitter and the receiver, go to MODEL SETUP—External RF—Mode R9M—Range.

## How to Set Failsafe mode (on the transmitter)

There are 3 failsafe modes: No Pulse, Hold, Custom

- No Pulse: on loss of signal the receiver produces no pulses on any channel. To apply this type, select it in the menu and wait 9 seconds for the failsafe to take effect.

- Hold: the model will hold the last position after signal lost. To apply this type, select it in the menu and wait 9 seconds for failsafe to take effect.

- Custom: the customized position of each individual channel. The model will move to the preset position after signal lost. Move the cursor to "Set" and press ENTER, you will see FAILSAFE SETTING screen below. Move the cursor to the channel you want to set failsafe on, and press ENTER. When moving the corresponding sticks or switches, you will see the channel bar moving. Move the channel bar to the place you want for failsafe and long press ENTER to finish the setting. Wait 9 seconds before failsafe taking effect.

**Note: If failsafe is not set, the model will hold the last position after signal is lost, thus it may fly away or cause injury.**

More information please refer to the introduction manual for transmitter.

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website [www.frsky-rc.com](http://www.frsky-rc.com) for the latest update firmware and manuals