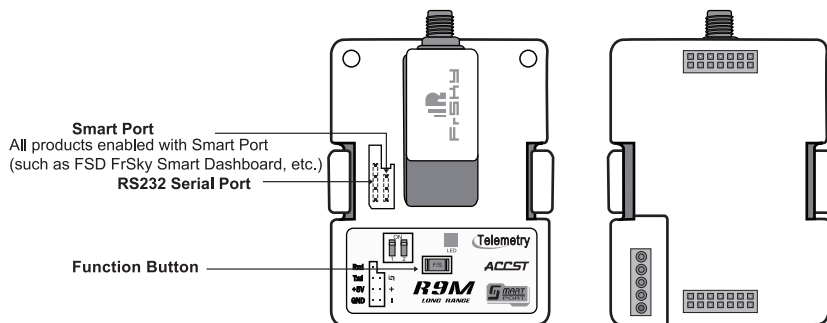


Introduction

Thank you for purchasing FrSky R9M telemetry module. 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



Specifications

- Operating Voltage Range : 4V~12V
- Modulations: PXX-CPPM (auto-detected)
- Telemetry Interface: Smart Port
- Upgrade Interface: Smart Port

about the Output Power and operating current :

Spectrum or pattern	915MHZ	915MHZ	915MHZ	915MHZ	Range Check
operating voltage \ power \ operating current	10dBm	20dBm	27dBm	30dBm	-20dBm
6V	165mA	240mA	430mA	575mA	60mA
10V	105mA	155mA	260mA	350mA	40mA



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

1. 900MHz working mode
2. Long range, low latency and high precision RC system
3. 4 Optional RF power
4. Smart Port enabled and support telemetry data transmission

How to set RF power

Switch1	Switch2	Operation	RF Power	Gear or model
OFF	OFF	connect the battery to any available channel output no need to hold the Function Button on R9M	10mW	First Gear
		connect the battery to any available channel output while holding the Function Button on R9M	/	Range Check Model

ON	OFF	connect the battery to any available channel output no need to hold the Function Button on R9M	100mW	Second Gear
OFF	ON	connect the battery to any available channel output no need to hold the Function Button on R9M	500mW	Third Gear
ON	ON	connect the battery to any available channel output no need to hold the Function Button on R9M	1W	Fourth Gear

Note: After setting up power, short press buttons, leds (Red and Green) flash a few times which represents a few gears; If only the flash a red led is the range check. (short press, pressing need to wait about 5 s again, otherwise the led may not on)

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 both during range check and during the flight.

Follow the steps below to perform the range check.

1. Place the model at least 60cm (two feet) above non - metal contaminated ground (e.g. on a wooden bench).
2. The receiver antennas should be separated in the model, and do not touch the ground.
3. The module antenna should be in a vertical position.
4. Setting up the Switchs off then Connect the battery to any available channel output while holding the Function Button on R9M module to enter the Range check, the LEDs offed.
5. Walk away from the model while simultaneously operating the controls on the transmitter to confirm all controls' normal operation (please refer to the corresponding receiver's instruction manual for details).
6. Resetting the power , and Connect the battery , indicating normal operation is back .

FCC STATEMENT

1. 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.
 - 2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

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 for the latest update firmware and manuals