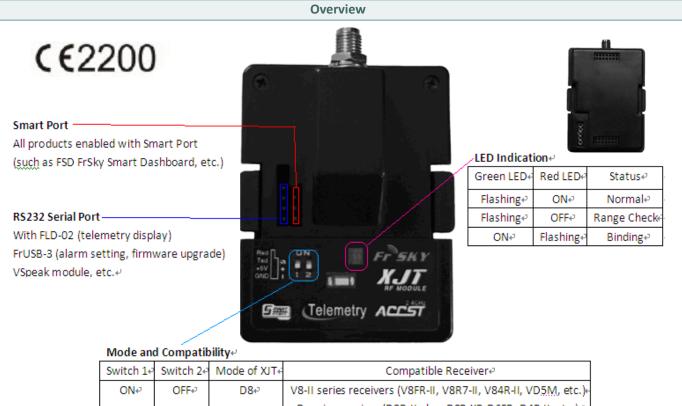


5Instruction Manual for FrSky 2.4G RADIO SYSTEM XJT Module

Introduction

Thank you for purchasing FrSky 2.4G RADIO SYSTEM XJT 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.



ON€ OFF€ D8€ V8-II series receivers (V8FR-II, V8R7-II, V84R-II, VD5M, etc.)€ OFF€ OFF€ D16€ X series receiver (X8R, X4R, etc.)€ OFF€ ON€ LR12€ L series receiver (L9R, etc.)€ ON€ ON€ Not Defined€ €

Specifications

Operating Voltage Range: 6~15 V
Operating Current: 140mA@6V
Output Power: ≤ 100mW
Module Slot: JR/Graupner Type

Modulations: PXX or CPPM (auto-detected)

Modes: D8, D16 or LR12 (selectable)

Telemetry Interface: Smart Port, RS232 Serial Port Upgrade Interface: Smart Port, RS232 Serial Port

What's New!

- Two auto-detected modulations of PXX (mode selection, bind, model match, range check, failsafe, etc. on radio side) or CPPM.
- Three selectable modes of D8 (existing 8ch two-way), D16 (new 16ch two-way full duplex transmission) and LR12 (new 12ch one-way long range).
- Smart Port enabled, realizing two-way full duplex transmission.
- Detect the module antenna's working status and give sound warnings if the module antenna is broken or does not have intact contact, etc.
- Super lower latency (approx. 1/3 of current systems) and higher precision (transmitter's hardware and software support required, such as FrSky transmitters).

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, X8R 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.

Binding Procedure

Binding is the process of uniquely associating a particular receiver to a transmitter module. A transmitter module can be bound to multiple receivers (not to be used simultaneously). A receiver can only be bound to one transmitter module. Follow the steps below to finish the binding procedure.

- Turn on the transmitter while holding the F/S button on the 2.4G RADIO SYSTEM XJT module (see Mode and Compatibility table above). Release the button. The RED LED on the 2.4G RADIO SYSTEM XJT module will flash, indicating the transmitter is ready to bind to the receiver.
- 2. Connect the battery to the receiver while holding the F/S button on the receiver. The RED LED on the receiver will flash, indicating the binding process is completed (please refer to the corresponding receiver's instruction manual for details)
- 3. Turn off both the transmitter and the receiver.
- 4. Turn on the transmitter and connect the battery. The RED LED on the receiver indicates the receiver is receiving commands from the transmitter. The receiver/transmitter module binding will not have to be repeated, unless one of the two is replaced.

Note: After binding procedure is completed, recycle the power and check if the receiver is really under control by linked 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 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. Turn on the transmitter and the receiver, press the F/S button on the 2.4G RADIO SYSTEM XJT module for 4 seconds to enter range check mode, the RED LED will be off, GREEN LED will flash rapidly. The effective distance will be decreased to 1/30 of full range.
- 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. Press the F/S button on the 2.4G RADIO SYSTEM XJT module for 1~4 seconds to exit range check mode, RED LED will be back on, indicating normal operation is back.

Safe Flying Distance

FrSky telemetry system has a feature to return the Received Signal Strength Indication (RSSI) of the receiver to the transmitter. The transmitter develops an internal voltage representing the receiver signal strength. Alarms are programmed in the transmitter to warn the pilot when the model is nearing maximum control range. See the table below for reference.

Number	Beep Alarming	Meaning
0	No Веер	The signal strength is strong
1	Single Beep	The signal strength is adequate
2	Constant double Beeps	The model is far, but safe range
3	Constant triple Beeps	The model in near maximum range
	Constant Beeps	The module antenna is broken, or does not have intact contact, etc.

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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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body