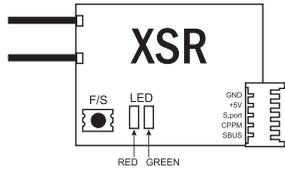


## Introduction

Thank you for purchasing FrSky XSR full duplex telemetry receiver. 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

Dimension: 26\*19.2\*5mm (L x W x H)

Weight: 3.8g

Number of Channels: XSR- 16Ch ( 1~16ch from SBUS channel,1~8ch from CPPM Channel)

Operating Voltage Range: 4.0~10V

Operating Current: 100mA@5V

Firmware Upgradeable

Compatibility: FrSky X-series Module & X9D & X9DP & X9E & X12S in D16 mode  
(XSR is not work with D-series Module)

**The LBT version of XSR receiver is only work with FrSky D16-LBT Mode.**

## Features

- Smart Port enabled, realizing two-way full duplex transmission.
- S-BUS output
- CPPM output
- Lighter weight and physically smaller than X4R
- More number of channels: 1~16ch from SBUS channel,1~8ch from CPPM Channel.



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, XSR,X6R and 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.

1. Turn on the transmitter while holding the F/S button on the module (please refer to the module instruction manual for switch positions). Release the button. The RED LED on the Module will flash, indicating the transmitter is ready to bind to the receiver.
2. Connect battery to the XSR receiver while holding the F/S button on the receiver. The LED on the receiver will flash, indicating the binding process is completed.
3. Turn off both the transmitter and the receiver.
4. Turn on the transmitter and connect the battery. The GREEN 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.

Receiver	Mode of Receiver	Telemetry	Channel Output	F/S Button
XSR	D16	√	CH1-CH16	Connect the battery to any available channel output while holding the F/S button on Receiver

**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 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 (at least 30m).
5. Walk away from the model while simultaneously operating the controls on the transmitter to confirm all controls' normal operation.
6. Press the F/S button on the XJT module for 1~2 seconds to exit range check mode, RED LED will be back on, indicating normal operation is back.

## Failsafe

Failsafe is a useful feature in which all controls move to a preset position whenever the control signal is lost for a period of time. XSR supports failsafe function for all channels. Follow the steps below to set failsafe positions for each channel:

1. Bind the receiver first and turn on both the transmitter and the receiver;
2. Move the controls to the desired failsafe position for all channels;
3. Press briefly the F/S button on the receiver (less than 1 second). The Green LED will flash twice, indicating the failsafe position has been set in the receiver.

### To disable the failsafe function, re-bind the receiver.

Failsafe is recommended to set when system is firstly used, or receiver has been re-bound. Follow steps below to set failsafe.

#### Option-1: How to set failsafe to a user-determined state on lost signal:

- 1) Bind the receiver to the transmitter module first and turn on both the transmitter and the receiver;
- 2) Move the controls to desired failsafe position for all channels;
- 3) Press briefly the F/S button on the receiver and you are done.

#### Option-2: How to set failsafe for no pulses on lost signal:

- 1) Turn off the transmitter, power on the receiver, and then press briefly the F/S button on the receiver.

**Note: If failsafe is not set, failsafe default will hold last position before signal is lost. In this case, there exists risk that your model will fly away or cause injury.**

For more details, please check the complete manual for XSR from [www.frsky-rc.com](http://www.frsky-rc.com) - Download – Manual. Should you have other questions, please send e-mails to FrSky technical support [sales4tech@gmail.com](mailto:sales4tech@gmail.com)