FrSky 2.4GHz ACCST X8R Manual

Introduction
Thank you for purchasing FrSky X8R 8/16ch 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: 46.47×26.78×14.12mm (L × W × H)
Weight: 16.6g
Number of Channels: 16CH (1~8ch from conventional channel outputs, 1~16ch from SBUS port or combine two X8R to become a 16 channels receiver)
With RSSI PWM output (0~3.3V)
Operating Voltage Range: 4.0~10V
Operating Current: 100mA@5V
Operating Range: full range (>1.5km)
Firmware Upgradeable
Compatibility: FrSky DFT/DJT/DHT/DHT-U in D_mode
FrSky Taranis X9D/XJT in D8 mode
FrSky Taranis X9D/XJT in D16 mode

What's New!
- More number of channels: 1~8ch from conventional channel outputs, 1~16ch from SBUS port, or combine two X8R to become a 16 channels receiver.
- Parallel two X8R to become a 16 channel receiver.
- With RSSI PWM output (0~3.3V)
- Smart Port enabled, realizing two-way full duplex transmission.

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.

Receiver Mode and Binding Operation:

When combine two X8R to become a 16CH receiver, you need to disable telemetry on either one of the two X8R’s as above chart.

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. X8R 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.
4. Move the controls to the desired failsafe position for all channels;
5. Press briefly the F/S button on the receiver and you are done.

Note: After binding procedure is completed, recycle the power and check if the receiver is really under control by linked transmitter.