RadioLink R6DS FHSS and DSSS Spread Spectrum Instructions

Contents

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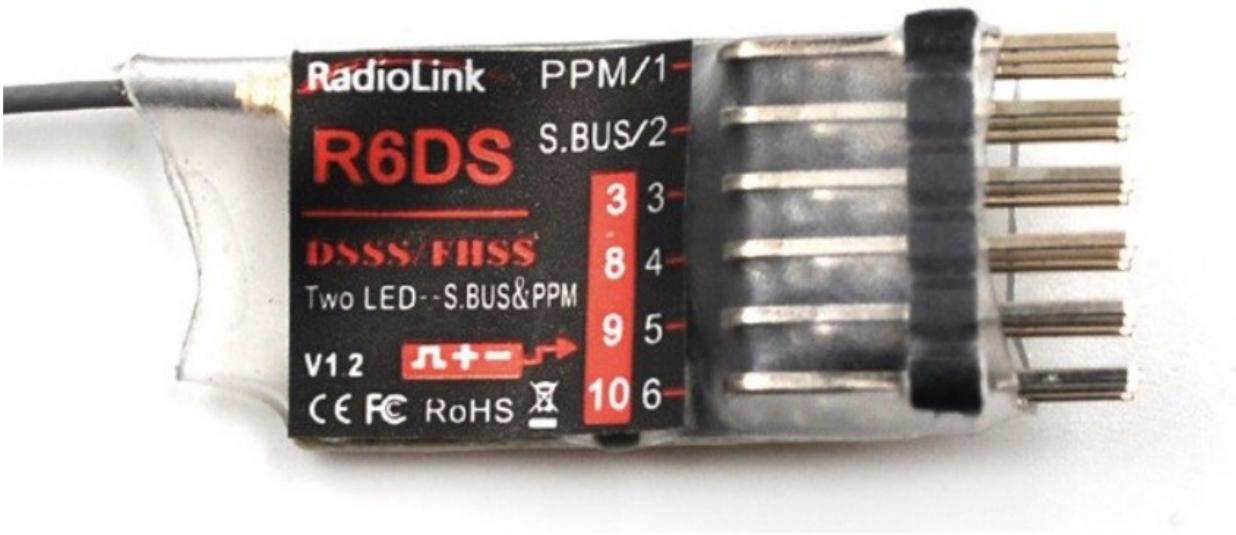
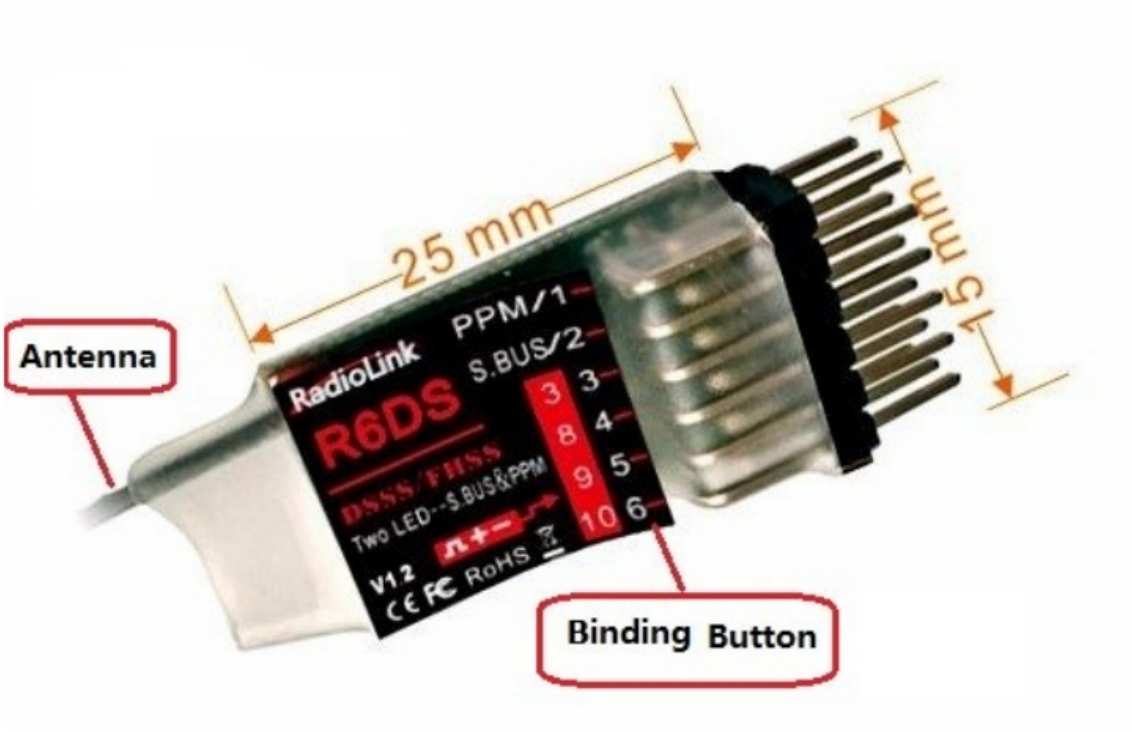


Radiolink R6DS, 2.4G 6/10 channels receiver, DSSS and FHSS spread spectrum working synchronously, use for Radiolink transmitters AT9 AT9S AT9S Pro AT10 and AT10II.
SBUS, PPM, and PWM signals are possible to work at the same time.

Product feature

- DSSS&FHSS act perfect on anti-interference, especially on 433 and graph transmission.
- Output SBUS, PPM and PWM signals simultaneously.
- Top speed response, 3ms for all channels parallel.
- Top precision 4096, 0.25us every bit insures every servo stable.
- Sub miniature size, totally weights 3.5 grams, never burden to your drones, best choice for light drones. Specially used for light drones, compatible with all flight controllers such as DJI NAZA,
- ZERO TECH, PIX, APM, MINI APM, NAZE32, and CC3D etc.
- One single cable connects with the flight controller, easy setting.



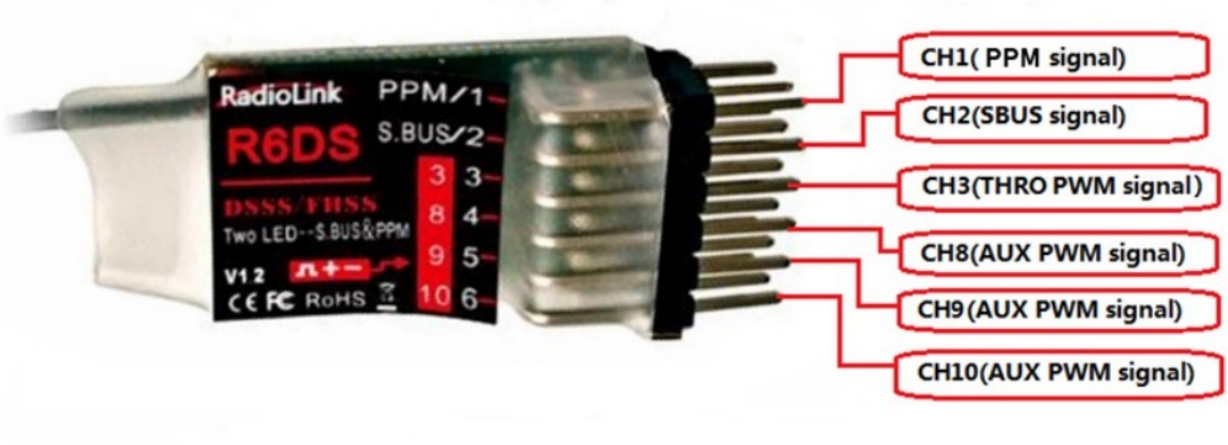
Two operating modes output

1. **PWM signal working mode:**
   Red LED indicates PWM signal output, 6 channels totally.

PWM signal working mode, 6channel

2. **SBUS signal working mode:**

   Blue/purple LED indicates SBUS/PPM signal output, CH1 output PPM signal, and CH2 output SBUS signal, CH3 output CH3 PWM signal (for helicopter) and CH4 to CH6 output CH8 to CH10 independent PWM signal simultaneously, 10 channels signal totally.



SBUS&PPM output working mode:
CH1 output PPM signal, CH2 output SBUS signal, CH3 output CH3 PWM signal and CH4 to CH6 output CH8 to CH10 independent PWM signal simultaneously, 10 channels signal totally.

SBUS/PPM and PWM signal change:

Short press the ID SET switch twice within 1 second, the signal is changed from normal PWM to SBUS/PPM. The red LED indicates the normal PWM and blue/purple indicates SBUS/PPM.

How to match code with transmitter

1. Place the transmitter and the receiver close to each other within 1 meter.
2. Turn on the transmitter, then power on the R6DS.
3. Connect R6DS to ESC or flight controller or servo.

4. There is a black button on the R6DSM, press the binding button in one second until the receiver light Nstarts blinking and release, after about 8 times blinking, match code success when receiver signal LED always on.

Installment of receiver antenna

1. The antenna must be kept as straight as possible. Otherwise it will reduce the effective range.
2. Large model aircraft may of some metal part interfering signal, in this case the antenna should be placed at side of the model.
3. The antenna must be kept away from conductive materials, such as metal and carbon by at least a half inch. The coaxial part of the antenna does not need to follow these guidelines, but do not bend it in a small radius.
4. Keep the antenna away from the motor, ESC, and other noise sources as much as possible.
5. The receiver can be packed by sponge or foam for shocking proof when it is installed to the model.
   After all of the above steps finished, now the program functions to assure it under control of transmitter with a right connection.

Specification

1. Channels: 6 channels when work as PWM mode. 10 channels when work as SBUS/PPM mode.
2. Working voltage: 4.8-6V
3. Working current: 38-45mA input voltage: 5V
4. Size: 25*15mm
5. Weight: 3.5 grams
6. Detachable antenna
7. 4096 section precision, 0.25us per section, servo anti-shake rudder.
8. Control distance: about 600 meters, actually control distance depends on the environment.

Documents / Resources

	RadioLink R6DS FHSS and DSSS Spread Spectrum [pdf] Instructions R6DS FHSS and DSSS Spread Spectrum, R6DS, FHSS and DSSS Spread Spectrum