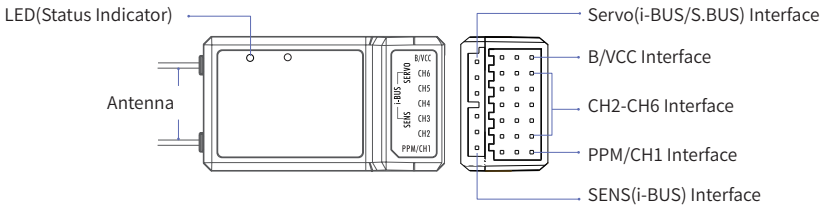
Introduction

FS-iA6B is a two-way receiver for multicopters, helicopters, and fixed-wing aircrafts, adopting AFHDS 2A (second-generation enhanced automatic frequency hopping digital system). It has 8 channels and can output standard PPM signal, PWM, i-BUS or S.BUS signal.

Receiver Overview



Interface introduction

PPM/CH1 Interface: Connects servo or output PPM signal.

CH 2 ~ CH6: Connects to servos, power supply or other components.

B/VCC: Used to connect the binding cable during binding, and used to connect the power cord during normal operation.

Servo(i-BUS/S.BUS) Interface: Used to connect i-BUS receiver to expand channels. It can output i-BUS or S.BUS signal.

SENS(i-BUS) Interface: For connecting i-BUS sensors.

Product Specifications

- Product Model: FS-iA6B
- Number of PWM Channels: 6
- Compatible Models: Multicopters, Fixed-wing Aircrafts, Helicopters
- Compatible Transmitters: FS-i6S
- Data Output: PWM/PPM/i-BUS/S.BUS
- Frequency Range: 2.408-2.475GHz
- Bandwidth: 500KHz
- Number of Bands: 135
- Maximum Power: < 20dBm (e.i.r.p.) （EU）
- Receiver Sensitivity: — 92dBm
- RF Protocol : AFHDS 2A
- Modulation Type: GFSK
- Transmission Method: FHSS
- Channel Latency: <15ms
- Antenna: Two Antennas
- Input Power: 4.0-8.4V/DC
- Display: LED Indicator
- Online Update: None
- Distance : More than 300m(Ground distance without interference)
- Dimensions: 47 * 26.2 * 15 mm
- Weight: 14.9 g
- Certification: CE, RCM, FCC ID:N4ZFLYSKYIA6B

Binding

The receiver supports two -way binding. The transmitter will display the information returned from the receiver after the binding is completed.

Follow the steps below to bind.

1. Put the transmitter into binding state.
2. Plug the binding cable into the B/VCC interface of the receiver.
3. Plug the power cord into any other interface. At the same time, the receiver LED flashes quickly, indicating that it has entered the binding state.
4. The receiver LED is solid on, indicating the binding is successful.
5. Unplug the binding cable from the receiver.
6. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 5 (binding process) if any problems arise.

Attention:

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so can result out of control. Unreasonable setting of the Failsafe may cause accidents.
- Make sure the receiver is mounted away from motors, electronic speed controllers or any device that emits excessive electrical noise.
- Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.

Certifications

FCC Compliance Statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

EU DoC Declaration

Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [FS-iA6B] is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address: www.flyskytech.com/info_detail/10.html

RF Exposure Compliance

The distance between user and products should be no less than 20cm.

Environmentally friendly disposal

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

FCC ID: N4ZFLYSKYIA6B

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