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› Flysky FS-i6X 10-Channel 2.4GHz RC Transmitter and X6B Receiver User Manual

Flysky FS-i6X with X6B

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Model: FS-i6X with X6B

1. INTRODUCTION

Thank you for choosing the Flysky FS-i6X 10-Channel 2.4GHz RC Transmitter and X6B Receiver. This system utilizes Flysky's Automatic Frequency Hopping Digital System Second Generation (AFHDS 2A) protocol, providing reliable and interference-free control for various RC models, including fixed-wing aircraft, gliders, helicopters, and multi-rotors. This manual provides essential information for the proper setup, operation, and maintenance of your RC system.

2. PACKAGE CONTENTS

Please inspect the package contents to ensure all items are present and undamaged:

- Flysky FS-i6X 10-Channel 2.4GHz Transmitter
- Flysky X6B i-BUS Receiver
- Binding Plug
- User Manual (this document)

3. SETUP

3.1 Transmitter Battery Installation

The FS-i6X transmitter requires four (4) AA batteries (1.5V each) for operation. Ensure correct polarity when inserting the batteries.

1. Open the battery compartment cover on the back of the transmitter.
2. Insert four 1.5V AA batteries, observing the polarity markings (+/-).
3. Close the battery compartment cover securely.

3.2 Receiver Connection (X6B)

The X6B receiver is designed for multi-rotor applications and supports PWM, PPM, and i-BUS outputs. Connect the receiver to your flight controller or servos as follows:

- **PWM Output:** Connect individual servos or ESCs to channels 1-6 on the receiver.
- **PPM Output:** Connect the PPM output port to your flight controller's PPM input. This provides 8 channels over a single wire.
- **i-BUS Output:** Connect the i-BUS port to your flight controller's serial input. This provides 18 channels and telemetry data over a single wire.

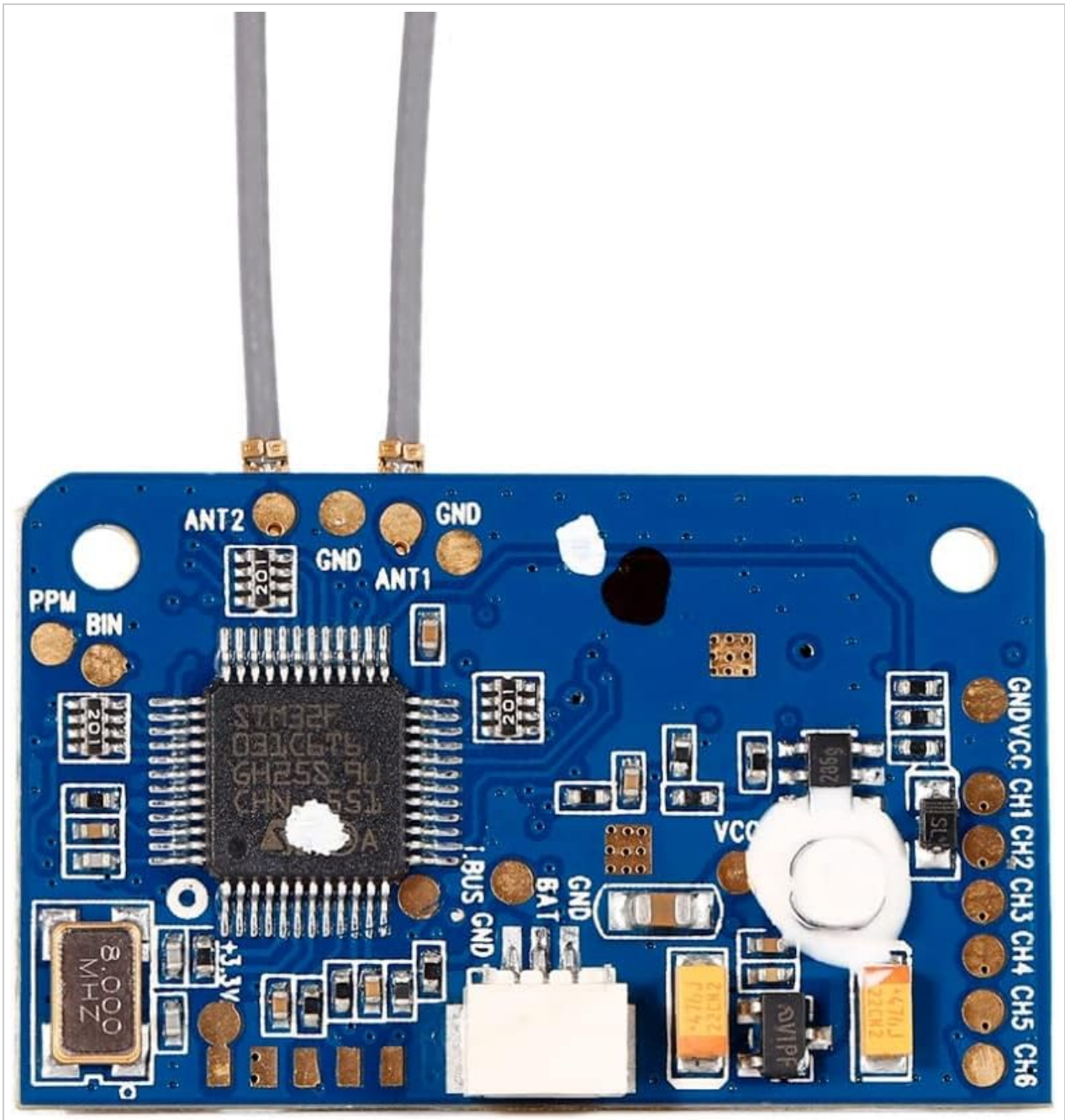


Image: Flysky X6B i-BUS Receiver board. This image shows the compact blue circuit board of the X6B receiver, featuring dual antennas for improved signal reception, and clearly labeled ports for PPM, i-BUS, and individual PWM channels (CH1-CH6) for connecting to a flight controller or servos.

3.3 Binding Transmitter and Receiver

Binding is the process of linking the transmitter to the receiver, allowing them to communicate exclusively. Ensure both devices are powered off before starting.

1. Insert the binding plug into the 'BIND' port on the X6B receiver.
2. Connect power to the receiver. The receiver's LED should flash rapidly, indicating it is in binding mode.
3. While holding down the 'BIND' button on the FS-i6X transmitter, power on the transmitter.
4. The transmitter's screen should display 'Binding...' or similar. Release the 'BIND' button on the transmitter once the binding process begins.
5. Once the receiver's LED turns solid, the binding is complete.
6. Power off both the receiver and the transmitter.
7. Remove the binding plug from the receiver.
8. Power on the transmitter first, then the receiver. The receiver's LED should now be solid, indicating a successful connection.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

To power on the transmitter, press and hold the power button until the LCD screen illuminates. To power off, press and hold the power button again until the screen turns off.

4.2 Transmitter Layout and Controls

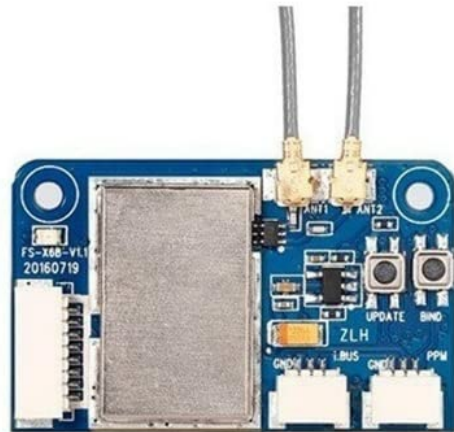


Image: Flysky FS-i6X RC Transmitter front view. This image displays the front of the FS-i6X transmitter, highlighting its dual stick controls (gimbals), various switches (SWD, SWC, SWB, SWA), rotary knobs (VRB, VRA), and the central LCD screen for menu navigation and displaying flight data.

The FS-i6X transmitter features two primary control sticks (gimbals), several switches, and rotary knobs for controlling your RC model. The LCD screen and navigation buttons allow access to the system's settings.

- **Left Stick (Mode 2):** Controls Throttle (vertical) and Rudder (horizontal).
- **Right Stick (Mode 2):** Controls Elevator (vertical) and Aileron (horizontal).
- **Switches (SWA, SWB, SWC, SWD):** Typically used for flight modes, gear, or auxiliary functions.
- **Rotary Knobs (VRA, VRB):** Used for fine-tuning or proportional control of auxiliary channels.
- **LCD Screen:** Displays current settings, telemetry data, and menu options.
- **Navigation Buttons:** Used to navigate through menus and adjust settings.

4.3 Menu Navigation and Settings

Use the 'OK' button to enter the main menu and the 'UP'/'DOWN' buttons to scroll through options. The 'CANCEL' button typically returns to the previous screen or exits the menu.

- **System Setup:** Configure model type, channel assignments, and system settings.
- **Functions:** Adjust sub-trims, endpoints, dual rates, and exponential settings.
- **Display:** Monitor channel outputs and telemetry data (if available and configured).

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your Flysky FS-i6X system.

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the transmitter and receiver in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the transmitter if storing for extended periods.
- **Antenna Care:** Ensure the receiver antennas are not bent sharply or damaged. For optimal performance, position them at a 90-degree angle to each other.
- **Firmware Updates:** Periodically check the Flysky official website for firmware updates for your FS-i6X transmitter. Updates can improve performance and add new features. The FS-i6X supports online updates.

6. TROUBLESHOOTING

If you encounter issues with your FS-i6X system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Transmitter does not power on.	Dead or incorrectly installed batteries.	Replace batteries or check polarity.
Receiver LED is flashing rapidly.	Receiver is in binding mode or not bound.	Perform the binding procedure (Section 3.3).
No control response from model.	Receiver not bound, incorrect wiring, or power issue.	Verify binding, check all connections, ensure receiver has power.
Short control range or signal loss.	Damaged antennas, interference, or low transmitter battery.	Check antenna condition and placement, avoid crowded 2.4GHz environments, replace transmitter batteries.
Low voltage warning on transmitter.	Transmitter batteries are low.	Replace transmitter batteries immediately.

7. SPECIFICATIONS

7.1 Flysky FS-i6X RC Transmitter

Feature	Specification
Channels	6-10 (Default 6)
Model Type	Fixed-wing / Glider / Helicopter
RF Range	2.408-2.475GHz

Feature	Specification
RF Power	< 20dBm
RF Channels	135
Bandwidth	500KHz
2.4GHz System	AFHDS 2A / AFHDS
Modulation	GFSK
Stick Resolution	4096
Low Voltage Warning	< 4.2V
DSC Port	PS/2 Port PPM
Antenna Length	26mm (Dual Antenna)
Weight	392g
Power	6V DC (4 x 1.5V AA batteries)
Display	STN Transflective LCD, 128x64 Lattice, VA 73x39mm, with white backlight
Size	174 × 89 × 190mm
Online Update	Yes
Color	Black
Certificates	CE0678, FCC ID: N4ZFLYSKYI6X

7.2 Flysky X6B i-BUS Receiver

Feature	Specification
Brand Name	Flysky
Item	X6B i-BUS Receiver
Channels	6 (PWM), 8 (PPM), 18 (i-BUS)
Model Type	Multi-rotor
RF Range	2.408 ~ 2.475 GHz
Bandwidth	500KHz
Bands	135
RF Power	Less than 20 dBm
Receive Sensitivity	-95dBm
2.4GHz Protocol	AFHDS 2A
Modulation	GFSK

Feature	Specification
Stick Resolution	1024
Low Voltage Alarm	Yes
DSC Port	PPM / PWM / i-BUS
Antenna Length	93mm (Dual Antenna)
Power Input	4.0-8.4V
Online Update	Yes (Wireless)
Range	>300m
Weight	4.5g
Size	36 × 22 × 7.5mm
i-BUS Port	Yes
Certificates	CE0678, FCC ID: N4ZX6B00

Note: The FS-i6X transmitter is also compatible with other Flysky receivers such as FS-iA6B, FS-iA10B, and FS-A8S, which may have different specifications. This manual focuses on the X6B receiver included with this specific product variant.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided by your retailer or contact Flysky customer service directly. Keep your proof of purchase for warranty claims.