ARRIS Jumper Bumblebee

ARRIS Jumper Bumblebee 2.4GHz 1W ELRS Long Range RC Transmitter User Manual

Model: Jumper Bumblebee

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your ARRIS Jumper Bumblebee 2.4GHz 1W ELRS Long Range RC Transmitter. Please read this manual thoroughly before using the device to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The Jumper Bumblebee is a compact and ergonomic radio transmitter designed for remote control aircraft, including FPV drones, fixed-wing aircraft, and quadcopters. It features a built-in 1000mW ExpressLRS (ELRS) module for long-range, stable control and comes pre-installed with the EdgeTX firmware for advanced customization and fast response times.

Key Features:

- **Integrated ELRS Module:** 1000mW (30dBm) output for extended range and reliable signal.
- **EdgeTX Firmware:** Preloaded for advanced functionality and user-friendly interface.
- **Hall Sensor Gimbals:** Provides precise and durable control input.
- **OLED Display:** 1.3-inch 128x64 resolution screen for clear information display.
- **Ergonomic Design:** Gamepad-style layout for comfortable grip and portability.
- **Adjustable Antenna:** Foldable antenna for convenience and optimal signal orientation.
- **USB-C Connectivity:** For charging and firmware updates.

Transmitter Components:

Figure 2.1: Front and Rear View of the Jumper Bumblebee Transmitter with Labeled Components.
This diagram illustrates the various controls and ports, including the OLED screen, gimbals, menu buttons, power button, lanyard loop, trim buttons, scroll wheel, external NANO module port, cooling fan, and anti-slip battery covers.

Figure 2.2: Detail of the Hall Sensor Gimbal.
The Hall sensor gimbals provide high precision and durability for control inputs.

3. SETUP

3.1 Unboxing

The package includes the Jumper Bumblebee radio transmitter. Inspect the contents for any damage. If any components are missing or damaged, contact your retailer.

3.2 Battery Installation

The Jumper Bumblebee requires two 18650 batteries (not included). To install:

1. Locate the battery compartment on the rear of the transmitter.
2. Remove the anti-slip battery cover.
3. Insert two 18650 batteries, ensuring correct polarity as indicated inside the compartment.
4. Replace the battery cover securely.

3.3 Initial Power-On

Press and hold the power button located on the front of the transmitter until the OLED screen illuminates. The EdgeTX system will boot up.

3.4 Binding with Receivers

The Jumper Bumblebee utilizes the ExpressLRS (ELRS) protocol. To bind your transmitter with an ELRS receiver (e.g., EP1, EP2, BetaFPV, Happymodel), follow the specific binding procedure for your receiver. Generally, this involves:

1. Power on your receiver.
2. Initiate binding mode on the receiver (often by cycling power three times or pressing a bind button).
3. On the transmitter, navigate to the ELRS module settings within EdgeTX and select the 'Bind' option.
4. Confirm successful binding via the receiver's LED indicator.

3.5 Firmware Updates

The transmitter's firmware can be updated via the USB-C port. Refer to the official EdgeTX documentation for detailed instructions on updating the firmware.

FIRMWARE UPDATE AND BATTERY CHARGING

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Figure 3.1: USB-C Port for Charging and Firmware Updates.

4. OPERATING INSTRUCTIONS

4.1 Basic Controls

- **Gimbals:** Control the primary movements of your aircraft (throttle, yaw, pitch, roll).
- **Switches:** Utilize the various two-position and six-position switches for auxiliary functions such as arming, flight modes, or special actions.
- **Trim Buttons:** Adjust the neutral position of your control surfaces for stable flight.
- **Scroll Wheel & Confirmation Button:** Used for navigating menus and confirming selections on the OLED screen.
- **Menu Button:** Access the main menu of the EdgeTX system.
- **Page Button:** Cycle through different pages or screens within the EdgeTX menu.
- **RTN Button:** Return to the previous menu or screen.

4.2 EdgeTX Menu Navigation

The EdgeTX firmware provides extensive customization options. Use the scroll wheel to navigate through menu items and the confirmation button to select. The menu button accesses the main menu, while the page and RTN buttons assist in navigating through different settings and returning to previous screens.

4.3 Simulator Use

The Jumper Bumblebee can be used with flight simulators. Connect the transmitter to your computer via the USB-C port or a 3.5mm standard PPM output cable. Configure your simulator software to recognize the transmitter as a joystick or game controller.

5. MAINTENANCE

5.1 Battery Care

- Always use high-quality 18650 batteries.
- Charge batteries using the integrated USB-C port or an external 18650 charger.
- Do not overcharge or deeply discharge batteries.
- Remove batteries if the transmitter will not be used for an extended period.

5.2 Cleaning

Clean the transmitter with a soft, dry cloth. Avoid using harsh chemicals or solvents that could damage the plastic or electronic components.

5.3 Firmware Updates

Regularly check for and install the latest EdgeTX firmware updates to ensure optimal performance and access to new features. Instructions are available on the official EdgeTX website.
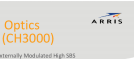
6. TROUBLESHOOTING

- **Transmitter does not power on:** Ensure batteries are correctly installed and charged.
- **Binding issues:** Verify both transmitter and receiver are in bind mode and using compatible ELRS firmware versions. Check receiver documentation for specific binding steps.

- **No control response:** Confirm successful binding. Check model settings in EdgeTX. Ensure receiver is powered and correctly connected to the flight controller.
- **Gimbal calibration:** If controls feel off, perform a gimbal calibration through the EdgeTX system menu.

For more detailed troubleshooting and support, refer to the official EdgeTX documentation or contact ARRIS customer support.

7. SPECIFICATIONS

Feature	Specification
Model Name	Jumper Bumblebee
Internal RF	ELRS 1W (30dBm)
Working Voltage	DC6V-8.4V
Compatible Firmware	EdgeTX
Screen	1.3" OLED 128x64 resolution
Gimbals	Hall Sensor Gimbals
Simulator Output	3.5mm standard PPM output or USB-C
Battery	2x 18650 (not included)
SD Card	Built-in chip officially recommended by EdgeTX
Product Dimensions	9.5 x 6.2 x 1.3 inches (24.1 x 15.7 x 3.3 cm)
Item Weight	6.4 ounces (181 grams)
Recommended Age	16 years and up

8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact the retailer where you purchased the ARRIS Jumper Bumblebee transmitter or visit the official ARRIS website. Keep your proof of purchase for warranty claims.

Related Documents - Jumper Bumblebee

[ARRIS AT3552H Headend Optics Platform Transmitter - Technical Specifications](#)
Detailed technical specifications for the ARRIS AT3552H, a 1.218 GHz Analog Externally Modulated High SBS Suppression Full Spectrum Transmitter for HFC, RFoG, PON, and FTTH networks.

	[ARRIS HT3540H Series Double-Density Full Spectrum DWDM Transmitter System Data Sheet](#) Comprehensive data sheet detailing the ARRIS HT3540H Series Double-Density Full Spectrum DWDM Transmitter System, including features, specifications, and ordering information for high-performance forward path transmission in Cable TV networks.
	[Jumper Bumblebee Quick Start Manual](#) A quick start manual for the Jumper Bumblebee Radio System, covering introduction, setup, binding, frequency tuning, model configuration, outputs, channel monitoring, gimbal calibration, battery charging, and firmware updates.
	[Jumper T12 MAX FPV Radio Transmitter Quick Start Manual	EdgeTX](#) Concise guide to setting up and using the Jumper T12 MAX FPV radio transmitter with EdgeTX firmware. Covers initial setup, binding, firmware updates, and calibration.
	[Jumper T14 ELRS Radio User Manual](#) User manual for the Jumper T14 ELRS Radio system, providing instructions on setup, configuration, operation, and troubleshooting for FPV applications.
	[Jumper T-20 Quick Start Manual: Setup, Features, and Firmware Updates](#) Comprehensive guide to the Jumper T-20 Radio System, covering initial setup, model configuration, firmware updates, and important safety warnings. Learn to operate your T-20 transmitter efficiently.