

Jumper

T12 Quick start guide.



Introduction.

Thank you for purchasing the Third-generation Jumper T12 Multi-protocol Radio system. Jumper is proud to bring this ground-breaking product to the market and would like to thank customers just like you and the community for making this dream possible.

Please take a moment to read this quick start reference before using your new T12 radio.

Happy flying!

-The Jumper Development team.



Safety & Precautions.

Many radio control models are equipped with powerful motors and sharp spinning propellers. Please exercise caution when working on models. Ensure power is disconnected from your models and remove propellers when performing maintenance.

Do not operate the T12 radio system under the follow conditions.

- During bad weather or high wind conditions such as rain, hail, snow, storms or electromagnetic events.
- During any conditions of limited visibility.
- In areas where people, property, powerlines, roads, vehicles or animals may be in present.
- If you are felling tired or unwell or under the influence of drugs or alcohol.
- If the radio or model appear to be damaged or not functioning correctly.
- In areas of high 2.4ghz interference or in locations where use of 2.4ghz radios is prohibited.
- When the battery is the T12 or the model is too low to function.



Manuals and firmware downloads.

The T12 is are shipped with JumperTX software installed as standard. To download the latest Software manual please visit <https://www.jumper.xyz/downloads>

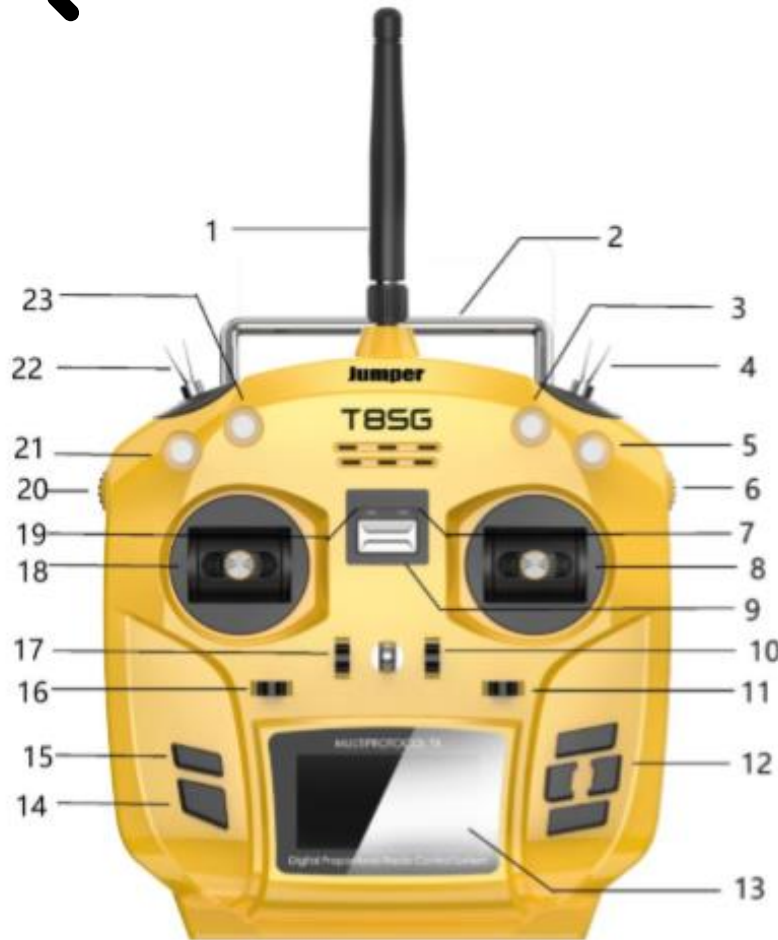


CAUTION!

The T12 is shipped with the most stable firmware at the time of manufacture. Please only update firmware if you are experienced and confident in updating system firmware. Incorrect updates may render the radio inoperable.



Radio Overview.



- 1: Antenna
- 2: Handle
- 3: SWC three-segment switch
- 4: SWH two-segment switch
- 5: SWA three-segment switch
- 6: AUX5 knob
- 7: RF indicator
- 8: Throttle / Aileron
- 9: Power switch
- 10: Digital trim key
- 11: Digital trim key
- 12: Menu direction key
- 13: Display Screen
- 14: Exit key
- 15: Confirm key
- 16: Digital trim key
- 17: Digital trim key
- 18: Direction / Tilt Joystick
- 19: Power Indicator
- 20: AUX4 Knob
- 21: SWD three-segment switch
- 22: SWG two-segment switch
- 23: SWB three-segment switch
- 24: JR/FrSKY Module Bay

- 25: Battery Bay
- 26: TF Memory card slot
- 27: Loud Speaker



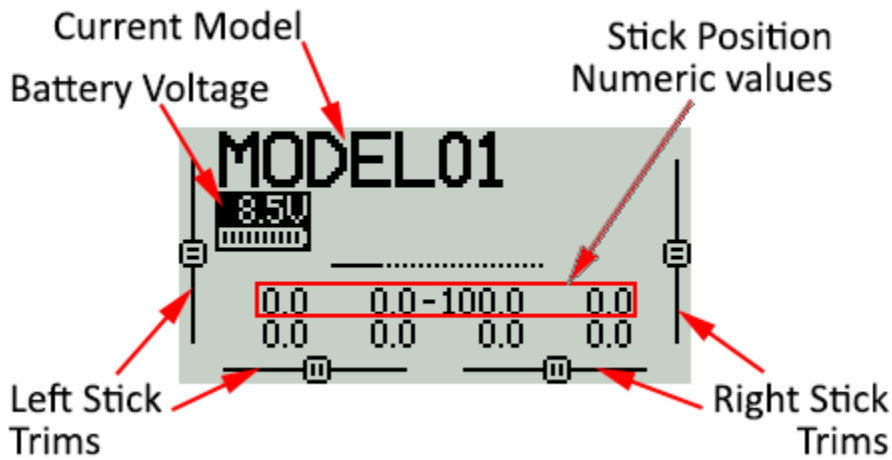
Power Requirements.

The T12 comes with a 4 x AA Battery tray (Batteries not included). Alkaline, Nicad or NiMH batteries are suitable for use in this radio. If Using Alkaline batteries, it is recommended to remove the batteries if the radio will not be used frequently or for any length of time to avoid any corrosion damage from leaking batteries.

Alternatively the T12 can be powered by a LiPO or LiFE battery via the batteries JST-XH Balance lead. The T12 can work on voltages 4.5v to 18v however for ease of use a 2s 7.4v Lipo is recommended.



Main Screen Display



Model and Protocol Selection

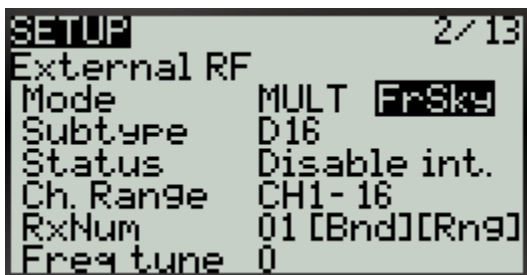
The T12, when equipped with the Jumper JP4-in-1 module, is cable of operating under many different protocols. To view the most up to date list of compatible protocols please visit <https://www.jumper.xyz>. Please note, new protocols are being added to the software all the time. Some protocols may require the upgrading of your firmware.

Model Selection.

1. Press the Menu button and select the Model memory slot you wish to use.

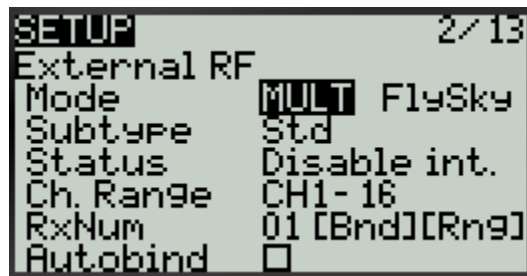


3. Move the cursor to the second part of Mode and select the Protocol you wish to use then press enter to lock in the selection.

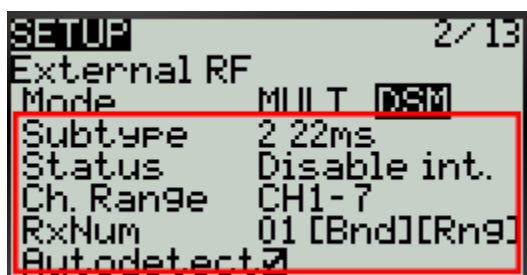


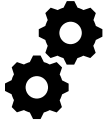
Protocol Selection.

2. Press the Page button to enter model setup then Navigate to the EXTERNAL RF options and under Mode select MULT



4. Different protocols will have different Binding sequences. Please pay attention to Subtype and select the correct type for your model or receiver. Follow Model or receiver manufactures binding steps.





Specifications.

Radio Specs:

Size: 158 * 150 * 58

Weight: 342g (without battery)

Working voltage: DC5-DC9V (factory with 4 * AA battery box, 2s Lipo recommended, batteries not included)

Firmware: JumperTX (open source Firmware set based on the OpenTX Project)

Channels: up to 12 channels (depending on the receiver)

Display: 1.7-inch LCD display, 128* 64 resolution

Gimbal Type: Potentiometer

JR/FrSKY compatible module bay on rear side

Upgrade method: USB online upgrade

Simulator mode: 3.5mm standard ppm output or USB HID

JP4-in-1 Specifications: (Module only included with T12+Module combo package)

Working voltage: 6-9v

Working current: <=100ma

Operating frequency: 2.4G ISM band

RF power: +22DBM

Main control chip: STM32F103CBT6 (128K ROM, 20K RAM)

Module bay compatibility: FRSky, Jr and other dimensions: 64*49*33 (without antenna)

Net Weight: 42g (including antenna)

Software Compatibility: Suitable for radios using JumperTX, OpenTX or er9x/ersky9x

Firmware updatable: Yes, via USB.



Support.

Warranty and Repairs.

Please retain your proof of purchase and contact the retailer you purchased your T12 from should you experience any problems with your radios hardware.

Firmware updates and JumperTX information.

For latest news and firmware updates please visit the <https://www.jumper.xyz/downloads>

Quick Start User Manual.

A digital copy of this quick start guide is available from <http://www.jumper.xyz>