

- | | |
|--|--|
| <p>1</p> <p>Horizontal tensioner
(Left-Right) CW to increase, CCW to decrease.</p> | <p>2</p> <p>Stick travel limiter
CW to increase, CCW to decrease.</p> |
| <p>3</p> <p>Vertical tensioner
(Up-Down) CW to increase, CCW to decrease.</p> | <p>4</p> <p>Gimbal mode
CW to disable self-centering, CCW to enable.</p> |

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

ANTENNA SEPARATION DISTANCE

When operating your RadioMaster transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

**RADIO
MASTER**

WWW.RADIOMASTERRC.COM

EU SIMPLE DECLARATION OF CONFORMITY

RadioMaster declares the radio equipment TX16S MKII is in compliance with EU directives Directive 2014/53/EU.

Manufacturer by

ShenZhen RadioMaster Co., Ltd
4th Floor, Yangtian Building, No. 18 Yangtian Road,
Xin'an Street, Baoan District, Shenzhen, Guangdong

FCC ID: 2AV3G-TX16S

FCC Information

This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. 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.

Full text of the declaration of conformity is available at:
www.radiomasterrc.com

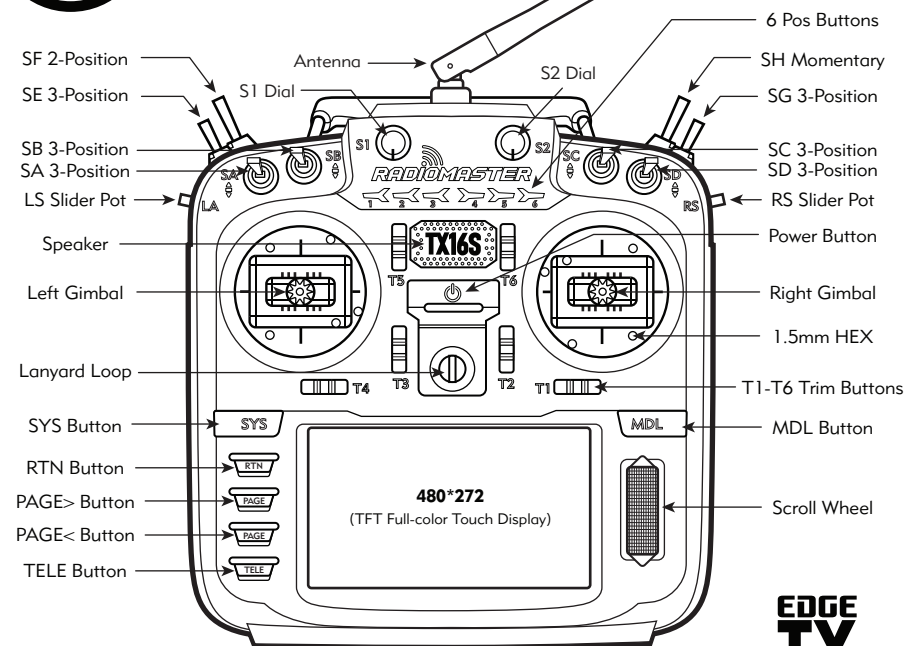


RADIOMASTER
TX16S MKII

**2.4
GHZ**

Quick Start Guide

Voltage Range
6.6-8.4V DC



BATTERIES NOT INCLUDED

SPECIFICATIONS

- | | | | |
|------------------------|--------------------------|---------------------|--|
| • Item: | TX16S MKII Radio | • Control distance: | Max 2km |
| • Size: | 287*129*184mm | • Channels: | Max 16 channels (RX dependent) |
| • Weight: | 750g (without battery) | • Working current: | 400mA |
| • Frequency: | 2.400GHz-2.480GHz | • TFT Display: | 4.3-inch full-color touch |
| • Internal RF Options: | 4-in-1 or ELRS 2.4GHz | • Gimbals: | Hall gimbals (AG01 Optional) |
| • Supported Protocols: | Module dependent | • External module: | JR / FrSKY / CRSF compatible |
| • Firmware: | EdgeTX (Supports OpenTX) | • Upgrade Method: | USB / SD card & EdgeTX Companion PC software |
| • Voltage Range: | 6.6-8.4V DC | | |

**EDGE
TX**

INTRODUCTION

Thank you for purchasing the RadioMaster TX16S MKII Multi-protocol radio system. RadioMaster 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. The MKII version has had several improvements thanks to feedback from users like you. Please take a moment to read this quick start reference before using your new TX16S MKII radio.

Visit our website for the most up to date information. TX16S MKII remote control is suitable for all types of fixed-wing aircraft, gliders, helicopters, cars, boats, robotics, multi-rotor aircraft and anything else you might create, if you can build it RadioMaster can control it.

The TX16S MKII uses a powerful operating system called EdgeTX, for more information visit the links.

-The RadioMaster team

SAFETY INFORMATION

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 TX16S MKII remote control system under the following conditions:

- In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
- In any situation where visibility is limited.
- In areas where people, property, high-voltage power lines, public roads, vehicles or animals may be present.
- If you feel tired or unwell, or under the influence of drugs or alcohol.
- If the remote control or model seems to be damaged or not working properly.
- In areas with high 2.4GHz interference or where 2.4GHz radio is prohibited.
- When the radios battery voltage is too low to be used.
- In areas where local regulations prohibit the use of aviation models.

IMPORTANT

FIRMWARE: The TX16S MKII is pre-installed with the most stable firmware at the factory at time of release. please only attempt to update the firmware if you are confident in the process. Incorrect firmware updates may cause the remote control to become inoperable.

MANUAL & FIRMWARE DOWNLOAD

TX16S MKII is pre-installed with factory approved EdgeTX firmware. To download the latest software manual, please visit the RadioMaster website: www.radiomasterrc.com

Further firmware information:

EdgeTX: www.edgetx.org

ExpressLRS: www.expresslrs.org

Multi Protocol Module: www.multi-module.org

BATTERIES & CHARGING

The TX16S MKII has built in USB-C charging for 3.7v Lithium cells. The Charging circuit is designed for 2x 3.7v Li-ion 18650 unprotected cells or 2x 3.7v Li-poly cells (2s 7.4v LiPO pack) only with a nominal cell voltage of 3.7v and maximum charge capacity of 4.2v.

APPROVED FOR USE

2x 3.7v Li-ION 18650 (7.4v using supplied tray)

2x 3.7v Li-ION 21700 (Assembled as 7.4v 2s Battery pack)

2x 3.7v Lithium-polymer (Assembled as 7.4v 2s Battery pack)

DO NOT USE

2s 6.6v LiFe battery pack, 18650 lithium-ion cells with a nominal voltage of 3.6v or LiFePO4 18650 Round cells. Using the built in USB charger with incorrect battery types and voltage may cause damage to the remote control or fire.

If using Li-ion, ensure the cells are not protected and are button-top cells.

Check the health and condition of the batteries regularly. **DO NOT** use damaged cells. Never charge your device unattended. Always charge in a safe area away from flammable materials. If the remote control gets wet or damaged in any way, **DO NOT** charge it.

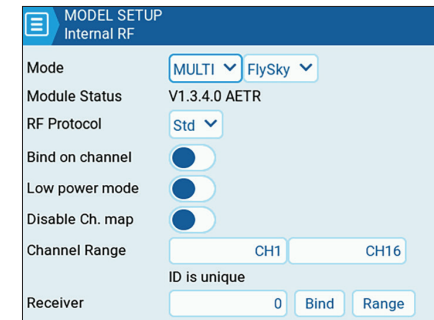
RadioMaster does not assume any responsibility for any adverse consequences caused by the use or misuse of this product.

MODEL & PROTOCOL SELECTION

Multi-protocol Module

A wide variety of modules is available for TX16S MKII units with the 4-in-1 module. To find out whether a certain protocol would work with your radio, please visit the multi module website.

Please note that new protocols will be constantly updated and added to the latest firmware. Some new protocols may require firmware upgrades



- Long press the **MDL** button to enter the model settings, select **MULTI** in the **SETUP** page, and select the protocol to be used in the sub-options. The system will automatically turn on the corresponding RF module according to the RF protocol you selected.

- Bind [**BND**] is used to start the binding process.

- Range [**RNG**] button can reduce the power to 1/30 to facilitate testing of remote-control distance.

ATTENTION

4in1/CC2500 Users: The receiver you are using may require frequency tuning, follow this link to tune before flight.

www.multi-module.org/using-the-module/frequency-tuning

WARRANTY & REPAIR

If there is any problem with your remote control hardware, please keep the proof of purchase and contact the retailer where you purchased the TX16S MKII.

You may also visit our warranty support page: www.radiomasterrc.com/contact

ELRS Version

TX16S MKII ELRS units are equipped with an internal ELRS module, Transmitting power Default 100mW. In non-extreme circumstances, 100mW output at 500Hz update rate is recommended, as higher RF output and update rates may significantly reduce battery life and generate excessive heat.

TOOLS	
lua	DSM Forward Programming v0.2
lua	ExpressLRS
lua	FrSky GaSuite
lua	FrSky RB30_RB40
lua	FrSky SBEC
lua	FrSky SxR

RM TX16S		0/500	-
Packet Rate	500Hz(-105dBm)		
Telem Ratio	Std (1:128)		
Switch Mode	Wide		
Model Match	Off (ID: 0)		
> TX Power (250mW)			
> VTX Administrator			
> WiFi Connectivity			
> Backpack			
[BLE Joystick]			
[Bind]			
3.3.1 ISM2G4		e051b8	

BIND INSTRUCTIONS

1. **TURN OFF** the transmitter.
2. Cycle power to the receiver 3 times, the receiver LED will flash twice - indicating bind mode.
3. **TURN ON** the transmitter, long press the **SYS** button and choose **ExpressLRS LUA** under the **TOOLS** menu. Scroll to [**Bind**] and press enter.
4. The LED on the receiver should now be solid, indicating a successful bind.