Introduction

Thank you for purchasing the FrSky 2.4GHz ACCST Taranis Q X7S digital telemetry radio system. In order to make the best use of your system and to fly safely, please read this manual carefully. If you have any difficulties while using your system, please consult the manual, your hobby dealer, or FrSky technical support.

Due to unforeseen changes in production, the information contained in this manual is subject to change without notice.

Meanings of Special Markings

Pay special attention to safety where indicated by the following marks:

- **WARNING** - Procedures may lead to hazardous conditions or cause death or serious injury if not carried out properly.
- **CAUTION** - Procedures where the possibility of serious injury to the user is small, but there is a danger of injury, or physical damage, if not carried out properly.
- **Note** - Steps, Tips, or information.

Step 1:

Refer to the table below and set the Taranis Q X7S to the mode corresponding to your receiver (D8, D16 or LR12).

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### Model Setup for Taranis Q X7S Internal RF Module

- Do not remove the battery from the Taranis Q X7S transmitter while the voltage warning is blinking as this could produce short-circuits and may cause the battery to fire even explode.
- Be careful not to drop the battery.
- The voltage range should be DC 6.5~15V.
- Please connect a battery in the battery compartment before use.

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**Cautions on handling antenna**

- Do not touch the antenna during operation. Doing so could interfere with transmission, causing a crash.
- Do not carry the transmitter by the antenna. The antenna wire could break and prevent transmission.
- Do not put the antenna facing the antenna wire. The antenna wire could break and prevent transmission.

Overview

(Switch Default Settings)

- SB: 3 positions; Short Lever
- SB: 3 positions; Long Lever
- SC: 3 positions; Long Lever
- SD: 3 positions; Short Lever
- SF: 2 positions; Long Lever
- SH: 2 positions; Monoway; Long Lever

You can choose the switch and define its position in the menu.

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**Adjust sticks of Taranis Q X7S**

Taranis Q X7S has 4 centered sticks and will not distinguish between the throttle stick and other sticks. You can change the stick mode and feeling according to your need.

**Battery Connector Polarity**

Ensure that the battery connector polarity is correct when connecting batteries into the battery compartment, otherwise the Taranis Q X7S might not be powered on.

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**Model Setup for Taranis Q X7S Internal RF Module**

- **Set the Model Setup menu.**

**Interface definition**

1. TF card is not provided with shipment.
2. USB port is for upgrading and loading MicroSD cards and internal memory of radio contents.

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**Notes and Warnings for Battery**

- Please connect a battery in the battery compartment before use.
- The voltage range should be DC 6.5~15V.
- Be careful not to drop the battery.
- Do not pull the battery wires as this could produce short-circuits and may cause the battery to fire even explode.
- Do not use the transmitter if a "Backup Error" warning occurs.
- Do not remove the battery from the Taranis Q X7S transmitter while the voltage warning is blinking as this could cause internal settings and memories to be destroyed.
- Do not use the transmitter if a "Backup Error" warning occurs.

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**Model Setting for Taranis Q X7S Internal RF Module**

- **Step 1:** Set the Mode for Taranis Q X7S Internal RF Module

Refer to the table below and set the Taranis Q X7S to the mode corresponding to your receiver (D8, D16 or LR12).

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**Specifications**

- **Model Name:** Taranis Q X7S
- **Number of channels:** 16 channels (Up to 32 channels when using an external DR module in V8 mode)
- **Operating Voltage Range:** 6.0~19V (2S, 3S Lipo's are acceptable)
- **Operating Current:** 190mA@7.2V
- **Operating Temperature:** -10~60°C
- **Operating Voltage Range:** 6.5~15V (2S, 3S Lipo’s are acceptable)
- **Model Memories:** 60 (extendable by MicroSD (TF) card)
- **Backlight LCD Screen:** 128*64 outdoor readable LCD
- **Model Name:** Taranis Q X7S
- **Compatibility:** FrSky receivers in the D8/D16/LR12 mode, Taranis Q X7S-EU version is not compatible with D8 mode.
- **Features:**
  - Half sensor M7 gimbal
  - Receiver Match
  - Audio Speech Outputs (values, alarms, settings, etc.)
  - Real-time Flight Data Logging
  - Receiver Signal Strength Indicator (RSSI) Alerts
  - Open source firmware OpenTx installed.
  - Support connect the FrSky Link App for telemetry.

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**Notice:**

Older V8 series receivers are not supported by the internal module of Taranis Q X7S but can be used with an external DUT module in V8 mode.

Taranis Q X7S-EU version only has D16-EU and LR12 modes.

**Step 2:** Set the Channel Range

The internal RF module of Taranis Q X7S supports up to 16 channels. The channel range is configurable, and needs double check before use.

**Step 3:** Set the Receiver Number

When you create a new model, the system will assign you a receiver number automatically, but this can be easily changed. The range of the receiver number is 00-63, with the default number being 01 (use 00 is not recommended). Once the receiver is set to the desired number and is bound to the Taranis Q X7S, the bind procedure will not need to be repeated unless the receiver number is changed. In this case, either set the receiver number to the previous one or repeat the bind procedure.

**Step 4:** Bind

Bind refers to Taranis Q X7S binding mode. Move the cursor to "Bind" and press ENTER button, the cursor will flash "Bind" and wait 9 seconds for the bind procedure to complete.

**Step 5:** Set Failsafe mode

There are 4 failsafe modes: No Pulse, Hold, Custom and receiver (this mode only used above opentx-v2.0.0 firmware).

- **No Pulse:** on loss of signal the receiver produces no pulses on any channel.
- **Hold:** the receiver continues to output the last positions before signal was lost. To use this type, select it in the menu and press ENTER, or repeat the bind procedure.
- **Custom:** pre-set to required positions on lost signal. Move the cursor to "Custom" and press ENTER, you will see FAILSAFE SETTING screen below. Move the cursor to the channel you want to set failsafe on, and press ENTER.
- **Failsafe mode:**

**Step 6:** Range

Range refers to Taranis Q X7S range check mode. A pre-flight range check should be done before each flying session. Move the cursor to "Range" and press ENTER. In range check mode, the effective distance will be decreased to 1/30. Press Enter or EXIT to exit.

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**Step 4:** Bind

Bind refers to Taranis Q X7S binding mode. Move the cursor to "Bind" and press ENTER button, the cursor will flash "Bind" and wait 9 seconds for the bind procedure to complete. Then put your receiver into bind mode and finish the bind procedure (refer to the receiver’s manual for details). Press ENTER, the speaker will beep to remind you that the RF module has entered the bind mode. Then put your receiver into bind mode and finish the bind procedure (refer to the receiver’s manual for details).

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To ensure the safety of yourself and others, please observe the following precautions.

- Have regular maintenance performed. Although your TARANIS Q X7S protects the model memories with non-volatile EEPROM memory (which does not require periodic replacement) and of a battery, it still should have regular check-ups for wear and tear. We recommend sending your system to your FrSky Service Centre annually during your non-flying-season for a complete check-up and service.

- Stop flying long before your batteries become low on charge. Do not rely on your radio's low battery warning systems, intended only as a precaution, to tell you when to recharge. Always check your transmitter and receiver batteries prior to each flight.

- Where to Fly: We recommend that you fly at a recognized model airplane flying field. You can find model clubs and fields by asking your nearest hobby dealer.

- Always pay particular attention to the flying field's rules, as well as the presence and location of spectators, the wind direction, and any obstacles on the field. Be very careful when flying near power lines, tall buildings, or communication facilities as there may be radio interference in their vicinity.

- At the flying field:

  - To prevent possible damage to your radio gear, turn the power switches off and on in the proper sequence:
    1. Pull the throttle stick to idle position, or otherwise disarm your motor/engines.
    2. Turn on the transmitter power and allow your transmitter to reach its home screen.
    3. Confirm the proper model memory has been selected.
    4. Turn on your receiver power.
    5. Test all controls, if a servo operates abnormally, do not attempt to fly until you determine the cause of the problem. (For POS systems only.) Test to ensure that the Fail safe settings are correct by waiting at least 2 minutes after adjusting them, turn the transmitter off and confirm the proper surface/motor movements, turn the transmitter back on.
    7. Complete a full range check.
    8. After flying, bring the throttle stick to idle position, engage any kill switches or otherwise disarm your motor/engines.

- If you do not turn on your system or end of in this order, you may damage your system or control surfaces, flick your engine, or in the case of on/off-power or gasoline-powered models, the engine may unexpectedly turn on and cause a serious injury.

- Make sure your transmitter can't tip it over. If it is knocked over, the throttle stick may be accidentally moved, causing the engine to speed up. Also, damage to your transmitter may occur.

- In order to maintain complete control of your aircraft it is important that it remains visible at all times. Flying behind large objects such as buildings, grain bins, etc., must be avoided. Doing so may interrupt the radio frequency link to the model, resulting in loss of control.

- FrSky is continuously adding features and improvements to our radio systems. Updating (via USB Port or the MicroSD card) is easy and free. To get the most from your new transmitter, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and guide for adjusting your sticks.

- The currently pre-installed firmware of FrSky Taranis Q X7S is modified from OpenTX firmware, improved and well tested by FrSky and the developing union.

- More information about OpenTX can be found on: http://openrcforums.com.

- Using a fully charged battery (DC 6.5~15V). A low battery will soon die, causing loss of control and a crash.

- When you begin your flying session, reset your transmitter's built-in timer, and during the session pay attention to the duration of usage. Also, if your model uses a separate receiver battery, make sure it is fully charged before each flying session.

Model Setup for Taranis Q X7S external RF Module

- Do not grasp the transmitter's antenna during flight. Doing so may degrade the quality of the radio frequency transmission and could result in loss of control.

- As with all radio frequency transmissions, the strongest area of signal transmission is from the sides of the transmitter's antenna. As such, the antenna should not be pointed directly at the model. If your flying style create this situation, easily move the antenna to correct this situation.

- Before testing, be sure to extend the transmitter antenna to its full length.

- A collimated antenna will reduce your flying range and cause a loss of control. It is a good idea to avoid pointing the transmitter antennas directly at the model, since the signal is weakest in that direction.

- Don't fly in the rain! Water or moisture may enter the transmitter through the antenna or static openings and cause electronic operation or loss of control. If you must fly in wet weather during a contest, be sure to cover your transmitter with a plastic bag or waterproof barrier. Never fly if lightning is expected.

Secure Digital (SD) Memory Card Handling Instructions

The MicroSD card (not provided with Taranis Q X7S) can store various files, such as model data, music, sound files, pictures and text. The card is locked when it is pushed in all the way in. To remove the card, push in on the card again, it will pop out allowing you to remove it.

⚠️ Warning

- Be sure to turn off the power of the transmitter before inserting or removing a MicroSD card.

- As the MicroSD card is a precision device, do not use excessive force when inserting.

- If model data generated by a transmitter with a new software version is copied to one with older software, the transmitter may not operate correctly. Before copying the model data, update the destination transmitter to the new software version.

- Do not expose the MicroSD card to direct moisture, water or fluids of any kind.

- Never remove the MicroSD card while the power is on.

- When storing the MicroSD card, place it in a cool, dry place, away from high temperatures, magnetic fields, and static electricity.

- Do not expose the MicroSD card to direct sunlight, excessive humidity or corrosive environments.

- Do not insert the MicroSD card in the wrong direction.

- Read data from a PC

Music and image files edited by a PC can be transferred onto the MicroSD card and used on your TARANIS Q X7S transmitter. Equipment for reading and writing MicroSD cards is available at most electronics stores.

- Stored data

The life of the MicroSD card is limited due to the use of Flash memory. If you have a problem saving or reading data after a long period of use you may need to purchase a new MicroSD card.

- We are not responsible for, and cannot compensate for any failure to the data stored in the memory card for any reason. Be sure to keep a backup of your models and data in your MicroSD card.