Thank you for purchasing the FrSky 2.4GHz ACCST Taranis Q X7 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.

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

**DANGER** - Procedures which may lead to dangerous conditions and cause death/serious injury if not carried out properly.
**WARNING** - Procedures which may lead to a dangerous condition or cause death or serious injury to the user if not carried out properly or procedures where the probability of superficial injury or physical damage is high.
**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.

= Mandatory  = Prohibited

Warning: Always keep electrical components away from small children.

### Introduction

Overview

- (Switch Default Settings): ● SA: 3 positions; Short Lever
- ● SB: 3 positions; Long Lever
- ● SC: 3 positions; Long Lever
- ● SD: 3 positions; Short Lever
- ● SP: 2 positions; Short Lever
- ● SH: 2 positions; Momentary; Long Lever

You can choose the Switch and define its positions in the Mixr menu.

### Features

- Quad Ball Bearing Gimbal
- Receiver Match
- Audio Speech Outputs (values, alarms, settings, etc.)
- Real-time Flight Data Logging
- Receiver Signal Strength Indicator (RSSI) Alerts
- Super Low Latency
- Vibration Alerts
- Model files are compatible with Taranis X9D/X9D Plus/X9E.
- Open source firmware OpenTX installed.

### Specification

<table>
<thead>
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<tr>
<td>Model Name: Taranis Q X7</td>
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<tr>
<td>Number of channels: up to 16 channels</td>
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<tr>
<td>Operating Voltage Range: 6-15V (2S, 3S Lipos are acceptable)</td>
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<tr>
<td>Operating Current: 210mA maximum (both RF module and backlight are on)</td>
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<tr>
<td>Operating Temperature: -10~45°C</td>
</tr>
<tr>
<td>Backlight LCD Screen: 128x64 outdoor readable LCD</td>
</tr>
<tr>
<td>Model Memorizes: 60 (extendable by MicroSD (TF) card)</td>
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Taranis Q X7–EU version only has D16-EU and LR12 mode.

### Specifications

| Compatibility: FrSky X series, D series and V8-II series receivers (plus other receivers if an external module is used) |

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### Set the Channel Range

1. Enter the MODEL SETUP menu.
2. Select the Model for Taranis Q X7 Internal RF Module.
3. Enter the MODEL SETUP menu.
4. Select the Receiver number automatically, but this can be easily changed.
5. The range of the receiver number is 0-63, with the default number being 01 (use 00 is not recommended).
6. Once the receiver is set to the desired number and is bound to the Taranis Q X7, the binding 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 reset the binding procedure.

### Failsafe mode

There are 4 failsafe modes:
- No Pulse: 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. To use this type, select it in the menu and wait 9 seconds for the failsafe to take effect.
- Hold: the receiver continues to output the last positions before signal was lost. To use this type, select it in the menu and wait 9 seconds for the failsafe to take effect.
- Custom: pre-set to required positions on lost signal. Move the cursor to “Set” 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. When moving the corresponding sticks or switches, you will see the channel bar move. Move the channel bar to the position you want for failsafe and long press ENTER to finish the setting. Wait 9 seconds before the failsafe takes effect.
- Effective: set the failsafe on the receiver (see receiver instructions) in D16 or LR12 mode, select it in the menu and wait 9 seconds for the failsafe to take effect.

### Range

Range refers to Taranis Q X7 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.

### Model Setup for Taranis Q X7 Internal RF Module

Enter the MODEL SETUP menu.

1. Set the Mode for Taranis Q X7 Internal RF Module.
2. Refer to the table below and set the Taranis Q X7 to the mode corresponding to your receiver (D8, D16 or LR12).

### Interface definition

- 1: Smart Port is now reserved for further development.
- 2: 1” card is not provided with shipment.
- 3: USB port is for upgrading and reading / writing MicroSD cards and internal memory of radio contents.

### Notes and Warnings for Battery (Not provided)

- Please connect the antenna in the battery compartment before use.
- The voltage range should be DC 6-15V.
- The internal RF module of Taranis Q X7 supports up to 16 channels. The channel range is configurable, and needs double check before use.

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Model Setup for Taranis Q X7 external RF Module

The external RF module can be powered on or off by software. The setup process is the same as that for the internal RF module. If you use other brand RF module than FrSky, please choose PPM mode.

FCC Statement

§ 15.19 Labelling requirements.
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.

§ 15.21 Information to be user.
Any Changes or modifications not expressly approved by the party responsible for compliance voids the user’s authority to operate the equipment.

§ 15.105 Information to the user.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

* RF warning for Portable devices:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

CE
The product may be used freely in these countries: Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway, France and Iceland.

Warning:
Treasure the safety of yourself and others, please observe the following precautions.

Have regular maintenance performed. Although your Taranis Q X7 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.

Battery
Bring a fully charged battery (6-10V). A low battery will soon die, causing loss of control and a crash. When you begin your flying session, read 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.

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.

Airfield Reference

At the flying field
To prevent possible damage to your radio gear, turn the power switches on and off in the proper sequence:
1. Pull throttle stick to idle position, or otherwise disarm your motor/engine.
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, don’t attempt to fly until you determine the cause of the problem. (For PCM systems only: Test to ensure that the FailSafe settings are correct by waiting at least 2 minutes after adjusting them, turning the transmitter off and confirming the proper surface/throttle movements. Then 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/engine.

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.

Make sure your transmitter can’t tip 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.

TARANIS Q X7 transmitters and MicroSD cards use non-volatile memory devices so that the data stored is retained, even without a backup battery. Nevertheless, it is good practice to back up the data in the transmitter to the MicroSD card.

The clock for the transmitter does depend on the internal battery, which may need to be replaced occasionally.

Updates
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 downloads section of the FrSky website www.frsky-rc.com for the latest upgrade firmware and guide for adjusting your sticks.

The currently pre-installed firmware of FrSky Taranis Q X7 is a modified from OpenTX firmware, improved and well tested by FrSky and the developing union.

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

Secure Digital (SD) Memory Card Handling Instructions

The MicroSD card (not provided with Taranis Q X7) 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.

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 X7 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.

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