

FrSky

FrSky TANDEM X18 Manual

Version 1.0

Introduction

When you are investing in a new radio and considering what requirements are important to you, if weight and comfort are primary considerations, followed by the benefit of the excellent system features of ETHOS, then the FrSky Tandem X18 radio is an obvious appropriate choice.

The Tandem X18 dual-band telemetry radio benefits from an enhanced ergonomic design with rounded and more comfortable hand grips, along with an improved case design to make the radio fully stable when standing. The radio includes easy-to-reach sliders and switches, 4 standard stick trims with additional 2 extra trims added to provide more flexibility with flight attitude adjustments while operating the radio. The X18 includes further enhancements with integrated flash storage which improves and simplifies storage operation and use, and the interior of the radio has been designed with space and weight in mind, while still keeping all ETHOS setting and control features for the pilot to enjoy.

Internal 900MHz/2.4GHz Dual-Band & External Module Bay

The TD dual-band RF system combines both the features and advantages of FrSky 900MHz and 2.4GHz RF together in one system. The TD features real simultaneous dual-band longrange control with telemetry that achieves reliable end-to-end 4ms latency while maintaining a robust and high-quality signal link. The entire range of TD, ACCESS & ACCST D16 receivers are supported. The built-in TANDEM RF System supports ACCESS and ACCST D16 protocols.

In addition, the Tandem X18 includes a rear Lite version module bay to offer more options to connect external devices. FrSky welcomes working compatibility with the 3rd party products with their own developed technology following FrSky verified 3rd party compatibility-testing program.

ETHOS Operating System

ETHOS is a thoroughly new operating system, designed from the ground up by RC experts, providing users a powerful, intuitive, and flexible experience that can maximize the fun of RC Hobby!

Layout

Labels for front view: 2.4G Internal Antenna, SF, SE, SB, SA, Power Switch, Stick, SYS, MDL, DISP, RTN, Speaker, Display Screen, SH, SG, SC, SD, Hook, Custom button, T4, T5, T6, T1, T2, T3, SWJ, SWI, Battery Cover, Slider, Module Bay, Carrying Bar, 900M Internal Antenna, Micro SD Card Port, Type-C USB Port, Training port, Smart Port, Earphone Port.

Switch

- SA: 3 positions; Short Lever
- SB: 3 positions; Long Lever
- SC: 3 positions; Long Lever
- SD: 3 positions; Short Lever
- SE: 3 positions; Short Lever
- SF: 2 positions; Long Lever
- SG: 3 positions; Short Lever
- SH: 2 positions; Momentary, Long lever

You can choose the Switch and define its position in the HARDWARE menu.

- Micro SD card is not provided with shipment.
- USB port is for upgrading, reading/writing Micro SD cards and internal memory of radio contents and charging.
- Smart Port is for firmware upgrade for all FrSky S.Port devices.

FrSky Electronic Co., Ltd. www.frsky-rc.com Contact us: frsky@frsky-rc.com

Add: F-4,Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China Technical Support: sales4tech@gmail.com

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Specifications

- Dimension: 200*192*95mm (L*W*H)
- Weight: 687g (Battery Excl.) / 820g (Battery Incl.)
- Operating System: ETHOS
- Internal RF Module: TANDEM
- Number of Channels: Up to 24 channels
- Operating Voltage Range: 6.5~8.4V (2S Li-battery)
- Operating Temperature: -10°C~60°C (14°F~140°F)
- Operating Current: 240mA@7.4V (typ.)
- Charging Current: ≤1A ±200mA
- USB Adaptor Voltage: 5V+0.2V
- USB Adaptor Current: >2.0A
- Backlit touchable LCD resolution: 480*320
- Compatibility: ACCST D16 & ACCESS & TD receivers
- RF parameters:
 - 2.4ghz & 900M/868Mhz ISM
 - Power 100mw for 2.4gHZ
 - 25mw/200mw/500MW for 868MHZ or up to 1W for 900Mhz

Features

Hardware

- Enhanced ergonomic designed case with comfortable rounded hand grips
- 4 Standard Trims with additional 2 extra trims
- Integrate flash storage but also keep the internal TF card slot
- Easy-to-reach top switches and sliders
- With a flat base to improve stability when standing the radio
- Color Touch-Screen Displays
- High-Precision Hall-Sensor Gimbals with a Metal Panel
- 6 Quick-Mode Custom Buttons (Front) and 2 Momentary Buttons (Rear)
- Lite Type External Module Bay
- Haptic Vibration Alerts and Voice Speech Outputs
- Supports Recharge System for 2S Li-ion Battery (USB Type-C Interface)
- High-speed PARA Wireless Training System

TD-ISRM RF Module

- Built-in TD 900M/2.4G Dual-Band Internal RF Module Supports Multiple Working Modes
 - 2.4G ACCST D16 Mode (Compatible with ACCST Receivers with D16 V2 or later FW)
 - 2.4GACCESS Mode (Compatible with ACCESS Receivers)*
 - 900M ACCESS Mode (Compatible with ACCESS R9 868/915MHz Receivers)*(*Capable of simultaneous working under ACCESS mode)
- 2.4G & 900M TD Mode (Compatible with TD Receivers)
- Long-range control and super-low latency with telemetry

(*Up to 50 to 100KM range and down to 4ms end-to-end latency)

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Version 1.0

ETHOS System

- Clear and Intuitive UI Design
- Supports Dual Operation Modes of Radio Display (Touch and Non-Touch)
- Supports Multi-Language Switching
- Hardware/Software Version and Factory Version Detection
- Supports running LUA Scripts

2S Li-battery balance charging via USB-C:

The Green LED indicator states:
Led on: in Charging/Led off: end of charge/flash: charge fault
Battery compartment size: 87*41*19.5mm (L*W*H)

Note: 1. Charge the battery with the USB adapter (Voltage: 5V+0.2V Current: > 2.0A) when you use the USB charging function.

2. The lower the initial charging voltage, the better the charging effect is when the voltage difference cells exceed 50 mV between the two.

Navigation Controls

The left navigation control does RTN, SYS, MDL, DISP, and Page UP/Down. The right navigation control does scroll and enter. Both navigation controls and touch screen can be used to control the system.

Ethos Suite

With Ethos Suite, you can update the radio bootloader, firmware, SD card, flash, and also convert image format and audio format. Find and download the ETHOS Suite at www.frsky-rc.com.

Note: To use the Ethos Suite application with a FrSky radio, the radio bootloader must be version 1.2.0 or newer.

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FrSky TANDEM X18 Manual

Version 1.0

ETHOS Operating System

Create the model

Step 1: First go to System Settings, then click Model Select to select the model type.

Step 2: Configure the model channel and create the model name.

Model Setup Procedure-Internal Module

Step 1:

Touch the screen or use the navigation keys to enter the RF system menu.

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FrSky TANDEM X18 Manual

Version 1.0

Choose the INT MODULE. Then turn ON INTERNAL RF, select the OUTSIDE or INSIDE ANTENNA. Set the Mode for TANDEM X18 internal RF corresponding to your receiver (ACCESS, ACCST D16).

RF System

ETHOS

0dB 0dB 6.9V

Owner Registration ID

GRqrswr

Internal Module

External Module

RF System

ETHOS

0dB 0dB 6.9V

Internal Module

State

OFF ON

Type

ACCESS

2.4G

OFF ON

Antenna

Internal

900M

OFF ON

Step 2: Set the Channel Range

The TANDEM RF module supports 24 channels, the channel range is configurable, and it needs to be double checked before use.

RF System

ETHOS

0dB 0dB 6.9V

900M

OFF ON

Model ID

0

Channel Range

CH1 CH24

Racing mode

Set

Register

Range

Min

-

Default

+

Max

Outputs

ETHOS

0dB 0dB 6.9V

CH1 Ailerons

Channel

0.0%

Mixer

0.0%

1500us

CH2 Elevators

Channel

0.0%

Mixer

0.0%

1500us

CH3 Throttle

Channel

-99.6%

Mixer

-99.6%

990us

CH4 Rudders

Channel

0.0%

Mixer

0.0%

1500us

Step 3: Set the Receiver Number

RF System

ETHOS

0dB 0dB 6.9V

Type

ACCESS

2.4G

OFF ON

Antenna

Internal

900M

OFF ON

Model ID

0

Min

-

Default

+

Max

The system will assign you the receiver a number automatically, when you create a new model, and this can be easily changed. The range of the Model ID is 00-63, with the default number being 01. Once the receiver is set to the desired number and is bound to the TANDEM X18, the bind procedure will not need to be repeated unless the receiver number is changed. At this point, set the receiving number to your preferred number and repeat the binding operation.

Step 4 : Registration

In ACCESS model, select the STATE [Register] into Registration status on radio side. Then Press the F/S button and power on your receiver, and select the "RX Name XX" and [REGISTER] to complete the Registration process then power down the receiver.

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Version 1.0

Register

ETHOS

0dB 0dB 6.7V

Receiver connected

Registration ID

GRqrswr

RX Name

RS

UID

1

Register

RF System

ETHOS

0dB 0dB 6.7V

900M

OFF ON

Model ID

Registration

0

Channel Range

Registration OK

CH1 CH24

Racing mode

Set

Register

Range

RX1 TD10R

Bind

Set

Reset

RF System

ETHOS

0dB 0dB 6.7V

Channel Range

CH1 CH24

Racing mode

Set

Select device

Register

Range

RX1 RS

Bind

Set

Reset

RX2

Bind

Set

Reset

RX3

Bind

Set

Reset

RF System

ETHOS

71dB 0dB 6.7V

Channel Range

CH1 CH24

Racing mode

Bind

Bind OK

Set

Range

RX1 RS

Bind

Set

Reset

RX2

Bind

Set

Reset

RX3

Bind

Set

Reset

Step 5: Automatic binding (Smart Match)

Move the cursor to Rx1[BIND],and select it, power your receiver, select the RX, and complete the process, the system will confirm "Bind succeed". (Pressing the "F/S" button is not required in ACCESS to Bind. Please refer to the receivers manual for details).

Step 6: Set Failsafe mode

There are 3 failsafe modes when enable: No Pulse, Hold, Custom.

RF System

ETHOS

0dB 0dB 6.7V

Set

Set Failsafe

Register

Range

RX1 RS

Not Set

Set

Reset

RX2

Hold

Set

Reset

RX3

Custom

Set

Reset

Failsafe

No Pulses

Set

Reset

Receiver

Not Set

- 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 the failsafe mode of channel and press Encoder, then choose the Custom mode. Move the cursor to the channel you want to set failsafe on, and press Encoder.

Then rotate the Encoder to set your failsafe for each channel and short press Encoder to finish the setting. Wait 9 seconds before the failsafe takes effect.

Notice:

- When failsafe is disabled on TANDEM X18 side, the failsafe set on receiver side will be used.
- SBUS port does not support the No Pulse failsafe mode and always outputs. Set "Hold" or "Custom" for SBUS port.

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Step 7: Range

Range refers to TANDEM X18 range check mode. A pre-flight range check should be done before each flying session. Move the cursor to "Set", scroll the Encoder to select "RANGE" mode and press Encoder. In range check mode, the effective distance will be decreased to 1/30. Press the Encoder again, turn to normal state.

RF System

ETHOS

99dB 0dB 6.7V

Channel Range

CH1 CH24

Racing mode

Set

Register

Range

RX1 RS

Bind

Set

Reset

RX2

Bind

Set

Reset

RX3

Bind

Set

Reset

RF System

ETHOS

73dB 0dB 6.7V

Channel Range

CH1 CH24

Racing mode

Range

RX : 1

VFR : 100%

RSSI : 74dB

Model Setup for TANDEM X18 External RF Module

RF System

ETHOS

100dB 0dB 6.7V

External Module

State

OFF ON

Type

R9M Lite Pro Access

ACCESS

Options

Set

Model ID

0

Channel Range

CH1 CH16

The external RF module can be powered on or off by software. The setup process is the same as that for the internal RF. External modules should be closed when not in use.

FCC

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

CE

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

FLYING SAFETY

Warning:

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

Have regular maintenance performed. Although your TANDEM X18 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 Center annually during your non-flying-season for a complete check-up and service.

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Battery

① Using a fully charged battery (DC 6.5~8.4V). 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 used a separate receiver battery, make sure it is fully charged before each flying session.

① **Stop flying long before your batteries become over discharged. 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.

① **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 flying in areas near power lines, tall buildings, or communication facilities as there may be radio interference in their vicinity.

At the flying field

① 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.
6. Start your engine.
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.

If you do not turn on your system on and off in this order, you may damage your servos or control surfaces, flood your engine, or in the case of electric-powered or gasoline-powered models, the engine may unexpectedly turn on and cause a severe injury.

① **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.

① 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.

⚠ 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 creates this situation, easily move the antenna to correct this situation.

① **Don't fly in the rain!** Water or moisture may enter the transmitter through the antenna or stick openings and cause erratic 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.

Updates

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

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FCC STATEMENT:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

INDUSTEY CANADA STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). 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 of the device. In addition, this device complies with ICES-003 of the Industry Canada (IC) Rules.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Industry Canada licence-exempt RSS standard(s). 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.
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INDUSTEY CANADA STATEMENT(French):

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. De plus, cet appareil est conforme à la norme ICES-003 des règles d'Industrie Canada (IC). Tout changement ou modification non expressément approuvé par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à faire fonctionner l'équipement. Remarque : cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément aux normes RSS exemptes de licence d'Industrie Canada. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère des utilisations et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant et en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes : -Réorientez ou déplacez l'antenne de réception. -Augmenter la distance entre l'équipement et le récepteur. -Connectez l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté. -Consultez le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide. Cet équipement est conforme aux limites d'exposition aux rayonnements RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 2. Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. De plus, cet appareil est conforme à la norme ICES-003 des règles d'Industrie Canada (IC).

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Specific Absorption Rate (SAR) Information:

This Tandem digital radio system meets government requirements for exposure to radio waves. Guidelines are based on standards developed by independent scientific bodies. Evaluate the organization through regular and thorough scientific research. These standards include substantial safety margins designed to keep everyone safe. Regardless of age or health.

FCC Radio Frequency Exposure Information and Statement:

The SAR in the United States (FCC) is below the limit of 1g 1.6 W/kg. Device Type: Smart Handheld Terminal (FCC ID: XYFTDX18HDSP, IC: 23846-TDX18HDSP) has also been tested against this SAR limit. During product certification, when properly worn on the body, the maximum SAR value reported in accordance with this standard is less than 1.6 W/kg. The device has been tested for typical body-worn operation and has a back.

The Tandem digital radio system is kept 0 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0 cm distance between the user's body and the back of the Tablet PC. The use of belt clips, holsters and similar accessories should not include metal parts in their assembly. Use of accessories that do not meet these requirements may not meet FCC RF exposure requirements and should be avoided.

Informations sur le débit d'absorption spécifique (DAS):

Ce Tandem digital radio system répond aux exigences gouvernementales en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organismes scientifiques indépendants. Évaluer l'organisation par des recherches scientifiques régulières et approfondies. Ces normes comprennent des marges de sécurité substantielles conçues pour assurer la sécurité de tous, indépendamment de l'âge ou de la santé. Informations et déclaration de la FCC sur l'exposition aux fréquences radio : Le DAS aux États-Unis (FCC) est inférieur à la limite de 1g 1,6 W/kg. Type d'appareil : Terminal portatif intelligent (ID FCC : XYFTDX18HDSP, IC : 23846-TDX18HDSP) a également été testé par rapport à cette limite SAR. Lors de la certification du produit, lorsqu'il est correctement porté sur le corps, la valeur DAS maximale signalée conformément à cette norme est inférieure à 1,6 W/kg. L'appareil a été testé pour un fonctionnement typique porté sur le corps et dispose d'un dos. Le Tandem digital radio system est maintenu à 0 cm du corps. Pour maintenir la conformité aux exigences d'exposition RF de la FCC, utilisez des accessoires qui maintiennent une distance de 0 cm entre le corps de l'utilisateur et l'arrière de la tablette PC. L'utilisation de clips de ceinture, d'étuis et d'accessoires similaires ne doit pas inclure de pièces métalliques dans leur assemblage. L'utilisation d'accessoires qui ne répondent pas à ces exigences peut ne pas répondre aux exigences d'exposition RF de la FCC et doit être évitée.