

FrSky

FrSky TANDEM X20/X20 HD/X20 Pro Manual

Version  
1.0

### Introduction

TANDEM X20 - A groundbreaking dual-band radio transmitter. Comes with a color-display touch screen, using the light-weight and robust case but quality material. And the rear 2 momentary buttons provide DLG pilots a fit position for the launch finger no matter you are left or right-handed.

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

The TD dual-band RF system does not simply reiterate the features of combining FrSky 900MHz and 2.4GHz RF systems. The TD features its real simultaneous dual-band long-range control with telemetry that can achieve incredible and incomparable end-to-end 3ms latency while connecting the TD receivers.

ETHOS - A Powerful, Intuitive and Flexible OS!

The ETHOS, as a thorough upgrade base on the former system FrOS.

### Layout

Labels: SF, SE, SB, SA, Slider, Stick, SYS, MOL, TELE, RTN, Speaker, Display Screen, Power Switch, Switch, SH, SG, SC, SD, SH, Slider, Stick, Hook, Carrying Bar/Antenna 900 MHz, Module Bay, Battery Cover.

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.

1. Micro SD card is not provided with shipment.

2. USB port is for upgrading, reading/writing Micro SD cards and internal memory of radio contents and charging.

3. Smart Port is for firmware upgrade for all FrSky S.Port devices.

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### Specifications

- Dimension: 212\*200\*95 mm (L\*W\*H)
- Weight: 809g (without battery)
- Operating system: ETHOS
- Internal RF module: TANDEM
- Operating Voltage Range: 6.5 ~ 8.4V (2S Li-battery)
- Operating Temperature: -10℃~60℃ (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: 800\*480
- Compatibility: ACCST D16 & ACCESS receivers

### Features

|  | Stand. |
|--|--------|
| <ul style="list-style-type: none"><li>• Built-in TD 900M/2.4G Dual-Band Internal RF Module</li><li>• Supports Multiple Working Modes<ul style="list-style-type: none"><li>- 2.4G ACCST D16 Mode (Compatible with ACCST Receivers with D16 V2 or later FW)</li><li>- 2.4G ACCESS Mode (Compatible with ACCESS Receivers)</li><li>- 900M ACCESS Mode (Compatible with ACCESS R9 915MHz Receivers)</li><li>- *Capable of simultaneous working under ACCESS mode</li><li>- 2.4G&amp;900M TD Mode <sup>NEW</sup> (Compatible with TD Receivers)</li><li>- Super-low latency and long-range control with telemetry</li><li>- *Up to 50 to 100KM range and down to 3ms end-to-end latency</li></ul></li></ul> | •      |
| • 800*480 Color Touch-Screen Displays  | •      |
| • 6 Quick-Mode Custom Buttons (Front) and 2 Momentary Buttons (Rear)   | •      |
| • Lite Type External Module Bay  | •      |
| • Built-in 6-axis Gryoscope Sensor   | •      |
| • All CNC Metal Trims, Knobs   | •      |
| • 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 (Compatible with FreeLink App3.0)   | •      |
| • High-Precision Hall-Sensor Gimbals with All-CNC Metal Panel  | •      |
| <ul style="list-style-type: none"><li>• ETHOS: The more powerful, Flexible and Intuitive OS for your radio.<ul style="list-style-type: none"><li>- Clear and Intuitive UI Design</li><li>- Supports Dual Operation Modes of Radio Display (Touch and Non-Touch)</li><li>- Supports Multi-Language Switching</li><li>- Hardware/Software Version and Factory Version Detection</li><li>- Supports running LUA Scripts</li></ul></li></ul>   | •      |

### About USB 2S Li-battery balance charging :

The Green Power indicator LED state:  
Led on: charging/Led off: charge end/Led flash: charge fault  
Please use the following type of battery if you do not want to use the battery slot  
LiFePO battery is not supported.  
Battery compartment size: 84\*41.5\*20mm (L\*W\*H)

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**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 between the two cells exceed 50 mV.

### Navigation Controls

The left navigation control does RTN, SYS, MDL, TELE and Page UP/Down. The right navigation control does scroll and enter. The navigation controls or touch screen can be used.

### Connections and switches

There is an area behind the base of the display for the external 2.4GHz antenna, trainer jack, S.Port, SD card, USB-C connection (PC and Li battery balance charging), headphone jack and external 900mHz antenna.

There are six three position switches, one two position and one spring loaded two position.

Two front pots, one front slider and two side sliders.

There are six mode buttons on the front of the system and two push buttons on the back near the grips.

### ISRM/R9M RF

The system has a newly designed ISRM/R9M RF board that has a 2.4gig section and a 900mHz section. Two internal 2.4gig antennas are located in case area at the very top and side and one external antenna mount behind the display base. The 900mHz has one internal antenna in the handle and one external antenna mount behind the display base.

Up to 24 channels for 2.4gig ACCESS, 16 channels for D16 and 16 channels for 900mHz ACCESS.

There is a connection for a FrSky external Lite version RF module.

### Battery

The system has a built-in 2S Li balance charger with a USB-C connection for a user provided external USB power source. The batteries are accessible through a battery hatch in the lower back area of the system.

The battery compartment is 84.5mm by 41.5 high and 20mm deep.

### Color Themes

Currently there are two color themes.

Blue case with natural color CNC aluminum gimbal rings.

Black case with the CNC black aluminum gimbal rings black.

### ETHOS

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The ETHOS operating system developed for the X20 is designed for touch or navigation controls use or a mix of both.

### Model Setup Procedure-Internal Module

The internal RF module of FrSky TANDEM X20 is newly developed by FrSky under the name of TANDEM-X20.

**Step 1:** Enter the RF SYSTEM menu

Choose the INT MODULE. Then turn ON INTERNAL RF, select the OUTSIDE or INSIDE ANTENNA ( Dual internal antennas and external antenna work simultaneously while selecting the OUTSIDE ANTENNA.) Set the Mode for TANDEM X20 internal RF corresponding to your receiver (ACCESS, ACCST D16).

**Step 2:** Set the Channel Range

The internal RF module of TANDEM X20 supports 24 channels. the channel range is configurable, and it needs to be double checked 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 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 X20, the bind procedure will not need to be repeated unless the receiver number is changed, In this case, set the receiver number to the previous one, repeat the bind procedure.

**Step 4 :** Registration

In ACCESS, select the STATE [Register] into Registration status. 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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< Register

ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

External module

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ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

External module

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< RF system

ETHOS

External module

State

CH2

Type

XJT Lite

D16

Model ID

6

Channels Range

CH1

CH6

Set

Bind

Range

Set failsafe

Not Set

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, UK, 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.

① **Have regular maintenance performed.** Although your Taranis X9D Plus 2019/Taranis X9D Plus SE 2019 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.

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.

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< Register

ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

External module

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ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

External module

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UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

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< Register

ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

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< Register

ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

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Registration ID

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UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

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ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

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Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

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Reset

RX3

Bind

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Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

Bind

Set

Reset

RX3

Custom

Bind

Set

Reset

Set Failsafe

No Pulses

Not Set

Options

Receiver

Set

External Module

< RF system

ETHOS

Channels Range

Set

Register

Range

RX1

Archer1

Set

Reset

RX2

Set

Reset

RX3

Bind

Set

Reset

Set failsafe

Not Set

External module

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FrSky

FrSky TANDEM X20/X20 HD/X20 Pro Manual

Version  
1.0

< Register

ETHOS

Receiver connected

Registration ID

RX Name

Archer

UD

Register

< RF system

ETHOS

2.4G

Antenna

Registration

Registration OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind

Set

Reset

RX2

Hold

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Antenna

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ETHOS

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RX3

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Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Select device

Archer1

Archer2

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

2.4G

Antenna

Bind

Bind OK

Model ID

Channels Range

Set

Bind

Set

Reset

< RF system

ETHOS

Set

RX1

Non Set

Bind</