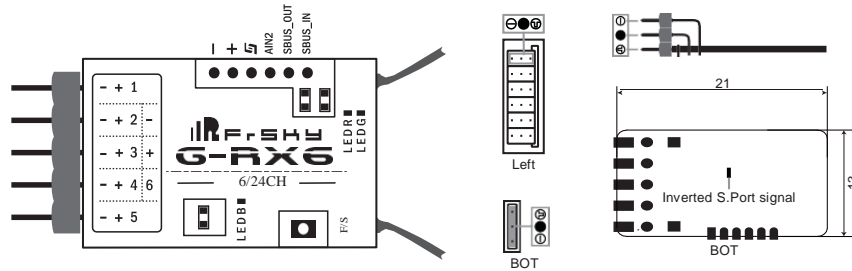


## Introduction

Thank you for purchasing FrSky G-RX6 6/24CH telemetry receiver. Especially designed for gliders, G-RX6 is ultra small and super light. FrSky builds a variometer sensor right into G-RX6, so telemetry data like altitude and vertical speed can be obtained. G-RX6 features 6 PWM output with higher precision and lower latency. The latency of the PWM output is 9ms less than that of X series receivers under high speed mode. G-RX6 also supports redundancy function, so it can be used in conjunction with another receiver. The G-RX6 and the whole RX-line has a 40% increased operating range compared to the previous X series receivers. In order to fully enjoy the benefits of this system, please read the instruction manual carefully and set up the device as described below.

## Overview



## What's New

- CH1~CH6 outputs high precision PWM signal (Precision: less than 0.5μs)
- Under the same conditions, the effective communication distance of G-RX6 is about 1.4 times than that of X series receivers.
- Installed with ACCESS protocol

## Specifications

- Dimension: 21\*13\*7.3mm (L x W x H)
- Weight: 2.2g / 2.6g (with two antennas)
- Number of Channels: 24CH
- Operating Voltage Range: 3.5V~10V
- Operating Current: 100mA@5V
- Operating Range: >2km
- Compatibility: ACCESS
- Servo frame rate: 9ms (HS--High Speed Mode) / 18ms (FS--Normal Speed Mode)



Smart Port (S. Port) is a signal wire full duplex digital transmission interface developed by FrSky Electronic Co., Ltd. All products enabled with Smart Port (including XJT module, XSR,X6R and X8R receiver, new hub-less sensors, new Smart Dashboard, etc), serial port user data and other user input/output devices can be connected without limitations for numbers or sequences at a high transmission speed.

## Feature

- Small and High sensitivity (40% increase of range compared to previous X series receivers)
- Integrated with high precision variometer sensor
- Higher precision and Low latency PWM output
- Lower power consumption
- Redundancy function supported
- Smart Port enabled and telemetry data transmission supported
- Battery voltage detection supported
- 2 detachable IPEX 4 connector antennas
- PCB protection with the conformal coating craftwork

## LED state

Green LED	Red LED	Status
On	On	Register
Flash	Flash	Register successfully
Flash	Off	Bind
On	Off	Bind successfully
On	Off	Working normally
Off	Flash	Failsafe

**Note: LED Blue is only for Variometer indication.**

## Registration & Automatic binding (Smart Match™)

With the FrSky ACCESS protocol, the transmitter/transmitter module can bind receiver without using the "F/S" button.

Follow the step below to finish the Registration & binding procedure:

1. Put the transmitter/transmitter module into [Reg] status.
  - 1.1 For Taranis X-Lite Pro as an example, turn on the transmitter, go to the MENU-MODEL SETUP-PAGE 2, choose Internal or External RF, and select [Reg].
2. Connect the battery to the receiver while holding the F/S button on the receiver. The RED LED and GREEN LED on the receiver will be on, indicating into the [Reg] status. Select [ENTER] on the transmitter, The RED LED and GREEN LED will flash, and the transmitter displays [Registration ok].
3. Turn off the receiver.
4. Move the cursor to select the receiver 1 [Bind].
5. Connect the battery to the receiver, the GREEN LED will flash, indicating into the [Bind] status. Select the RX, the GREEN will keep lit, and the transmitter displays [Bind successful].
6. The transmitter exit [Bind], GREEN LED will keep lit, RED LED will be off, indicating Working normally.

## How to Switch FS mode/HS mode

- a) The factory default setting is FS mode.
- b) To go to the receiver [Options], select the 9 ms PWM or not.

**Note: The SBUS output is 9ms, no matter HS/FS mode.**

## How to Disable/Enable Variometer function

- a) The factory default setting is "enabled".
- b) In case you want to disable variometer function and switch to normal operation mode, hold the F/S button for about 5 seconds, the BLUE LED will flash 3 times, indicating the switch was successful and the function will be disabled. (If you want to enable the function, just repeat the steps above).
- c) If Blue LED is on, the function is enabled.  
If Blue LED is off, the function is disabled.

## Range Check

A pre-flight range check should be done before each flying session. Reflections from nearby metal fences, concrete buildings or trees can cause loss of signal both during range check and during the flight. Under Range Check Mode, the RF power would be decreased and Range distance to 1/30 --1/10 that of Normal Model, about 30meters.

1. Place the model at least 60cm (two feet) above non-metal contaminated ground (e.g on a wooden bench). The receiver's antenna should be in vertical position.
2. For Taranis X-Lite Pro as an example, turn on the transmitter and power on the receiver, go to: MODEL SETUP/Internal RF/Range.
3. For transmitter RF module, please refer to its manual.

Much more operation and instruction please refer to radio manual.

## Failsafe

Failsafe is a useful feature which is for a preset channel output position whenever control signal is lost for a period. Follow the steps to set Failsafe for channels necessary:

Failsafe for receiver supporting ACCESS can be set via radio interface, which support no pulse, hold and custom three modes for each channel.

1. For Taranis X-Lite Pro as an example, turn on the transmitter, go to: MODEL SETUP/Internal RF/Failsafe.
2. Failsafe can be set on receiver via short pressing F/S button while moving a certain channel position to a preset value after binding.

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website [www.frsky-rc.com](http://www.frsky-rc.com) for the latest update firmware and manuals