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 4ms 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 × W × 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
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• Operating Range: >2km
• Compatibility: ACCESS/ACCSST firmware * Need to upgrade to the corresponding ACCST firmware
• Servo frame rate: 7ms (HS--High Speed Mode) / 20ms (FS--Normal Speed Mode)

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

Instruction Manual for FrSky ACCESS G-RX6
Version 1.0

LED state

<table>
<thead>
<tr>
<th>LED</th>
<th>Green LED</th>
<th>Red LED</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>On</td>
<td>Register</td>
<td></td>
</tr>
<tr>
<td>Flash</td>
<td>Flash</td>
<td>Register successfully</td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
<td>Bind successfully</td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
<td>Working normally</td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>Flash</td>
<td>Failsafe</td>
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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.
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. Connect the battery to the receiver while holding the F/S button on the receiver. The RED LED will light up, indicating into the [Reg] status. Select [ENTER] on the transmitter, The RED LED and GREEN LED will flash, and the transmitter displays [Registration ok].
4. Turn off the receiver.
5. Move the cursor to select the receiver (Bind).
6. Connect the battery to the receiver, the GREEN LED will flash, indicating into the [Bind] status. Select the RX, the RED LED will keep it, and the transmitter displays [Bind successful].

How to Switch FS mode/HS mode
a) The factory default setting is FS mode.
b) To go to the receiver [Options], select the 7ms PWM or not.

Note: The SBUS output is 7ms, 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 Mode, about 30 meters.
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.

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1. Put the transmitter/transmitter module into [Reg] status.
2. For Taranis X-Lite Pro as an example, turn on the transmitter and power on the receiver, go to: MODEL SETUP-PAGE 2, choose Internal or External RF, and select [Reg].
3. 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].
4. Turn off the receiver.
5. Move the cursor to select the receiver (Bind).
6. Connect the battery to the receiver, the GREEN LED will flash, indicating into the [Bind] status. Select the RX, the RED LED will keep it, and the transmitter displays [Bind successful].
7. The transmitter exit (Bind). GREEN LED will keep it, RED LED will be off, indicating Working normally.

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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:

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.