Introduction

The Archer RS receiver integrates all of the advantages of the previous receiver in its class, the R-XSR. The RS supports full-range signal control with an equivalent telemetry range. Dual detachable/replaceable antennas assure optimal antenna reception and maximum range with its lightweight design thanks to the extremely tiny form factor. Features an inverted S.Port that allows for easily connecting flight controllers, in addition to all this, the RS can also be used as a redundancy receiver along with any other FrSky ACCESS capable receiver equipped with a SBUS port. The best available signal will be used to ensure superior connectivity.

All of the Archer receivers are hyper-matched with the ACCESS protocol. They not only feature wireless firmware upgrades, increased range, and telemetry performance, the RS now supports even more functions like configurable telemetry power, S.Port/F.Port switching and FLR output. Additional valuable features are under development to unlock the true potential of the ACCESS protocol.

Overview

Specifications

- Dimension: 16*11*2.5mm (L*W*H)
- Weight: 1.3g
- 16/24 SBUS Output Channels
- Operating Voltage Range: 3.5 -10V
- Operating Current: <60mA@5V
- Control Range: Full range* with telemetry
  (*Full Range: >2km, range may vary based on local conditions.)
- Compatibility: All FrSky ACCESS transmitters

Features

- ACCESS protocol with Over The Air (OTA)
- Tiny and super lightweight
- Supports signal redundancy (SBUS In)
- Full control range with telemetry
- S.Port / F.Port
- Inverted S.Port
- Superior performance with low power consumption
- VFR (Valid Frame Rate) telemetry

LED state

<table>
<thead>
<tr>
<th>Green LED</th>
<th>Red LED</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>On</td>
<td>Register</td>
</tr>
<tr>
<td>Flash</td>
<td>Flash</td>
<td>Register successfully</td>
</tr>
<tr>
<td>On</td>
<td>Off</td>
<td>Bind successfully</td>
</tr>
<tr>
<td>On</td>
<td>Off</td>
<td>Working normally</td>
</tr>
<tr>
<td>Off</td>
<td>On</td>
<td>Failsafe</td>
</tr>
</tbody>
</table>

Registration & Automatic binding (Smart Match™)

Follow the step below to finish the Registration & binding procedure:
1. Put the transmitter/transmitter module into [Reg] status.
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 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 on the receiver 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.

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About OTA function

-- For Taranis X-Lite Pro as an example, go to the SD CARD 2/7, and select the FW, press the enter button, select [Flash receiver OTA], power on the receiver, select the RX, go to the [ENTER], complete the flash process, the transmitter will display [Flash successful]. Re-power the receiver and wait for 3 seconds, the Green LED starts flashing indicates the receiver works properly at the moment.

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How to switch the F.Port

-- For Taranis X-Lite Pro as an example, select the Receiver, press the ENTER button, select the Options, and select F.Port

Warning: [Options ] setting in flight will cause the failsafe.

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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.

1. Place the model at least 60cm (two feet) above non-metal contaminated ground (e.g. on a wooden bench). The receiver 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: SETUP 2/13 /Internal RF/ Module [Rng].
3. For transmitter RF module, please refer to its manual.

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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.

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FCC STATEMENT

1. 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.
   2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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 for the latest update firmware and manuals.