

1M23N17450

Thank you for purchasing a Futaba **R6202SBW FASST-2.4GHz** compatible receiver.

The **R6202SBW** has a two-port **S.BUS** system output and conventional system channel (2, 3ch) outputs. It can also be used with conventional system servos and **S.BUS** system-compatible servos and gyros. With two **S.BUS** ports, it's easy to connect your **S.BUS** equipment.

When the linking procedure is performed, **R6202SBW** recognizes the signal mode (**FASST-2.4GHz** 7ch mode or 8ch/10ch/Multi-ch mode) automatically.

In addition, the operating mode (high-speed mode/normal mode) can be selected.

**Usage condition for conventional system output (Ch2,3) on "High Speed mode"**

**⚠ CAUTION**

! "High Speed mode" accepts most types of peripherals but only digital servos.

- Connecting analog servos to these outputs will cause malfunction. If you notice a problem with whole stick lever throw, please check the peripherals. Change the operation mode to "Normal mode" if any malfunction occurs.

**Applicable systems: FASST-2.4GHz 7ch or 8ch/10ch/Multi-ch system**

**Antenna installation precaution**

**⚠ WARNING**

! Be sure that the two antennas are placed at 90 degrees to each other.

- Futaba's Dual Antenna Diversity, or DAD, then seamlessly selects the best signal reception between these antennas to ensure that there is no loss of signal.

**Antenna installation for carbon fuse**

**⚠ WARNING**

! At least 30mm of the antenna tip must be fully exposed.

- Please make sure that the exposed portion cannot slide back into the fuselage under wind pressure or other forces during your flying session.

**Power source usage precautions**

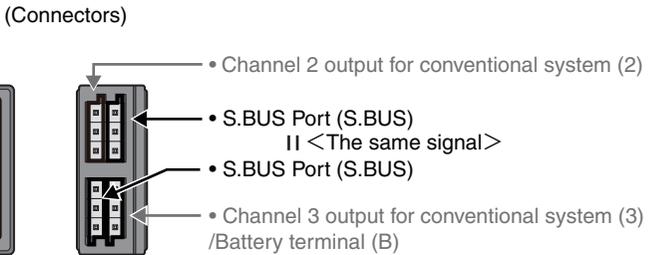
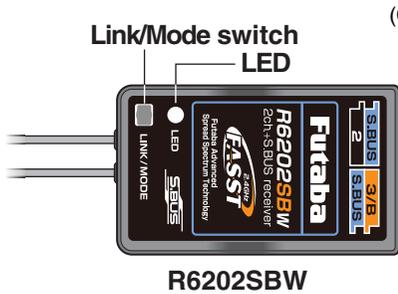
We do not recommend using less than 4.0V power. If you use a lower voltage source, please keep in mind the following.

- Fail Safe function **MUST** be in "off" since the battery f/s will disturb the normal operation.
- Please make sure that the full loaded condition of the ESC and the servos won't disturb the receiver operation before starting flight.

This is very important since the receiver will stop operation when the supply voltage drops to less than 3.5V.

- Please be sure that the ESC or servos can operate flawlessly under the lower voltage.
- The receiver battery can be connected with any connectors.

The power source voltage must not exceed the servo's rating.



**Compliance Information Statement (for U.S.A.)**

This device, trade name Futaba Corporation of America, model number R6202SBW, complies with part15 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.

The responsible party of this device compliance is:  
 Futaba Service Center  
 3002 N Apollo Drive Suite 1, Champaign, IL 61822 U.S.A.  
 TEL (217)398-8970 or E-mail: support@futaba-rc.com (Support)

**R6202SBW Specifications**

**FASST-2.4GHz (7ch/8ch/10ch/Multi-ch) system/S.BUS 2 port and 2 channels for conventional system/high-speed receiver**

- Size: 0.89 x 1.47 x 0.37 in. (22.5 x 37.4 x 9.3 mm)
- Weight: 0.25 oz. (7.2g)
- Power requirement: 3.7V to 7.4V(Voltage range: 3.5 to 8.4V)

\* When using the ESC's regulated output, be sure its capacity meets your requirements.

\*The Battery F/S voltage is set for 4-cell NiCd/NiMH battery. Battery F/S function doesn't work properly when other type battery is used.

\*The fail safe function can be set for each channel when on "Multi-ch" mode. However, it differs according to the transmitter. When on "7ch" mode, the fail safe function can be set for 3-channel only.

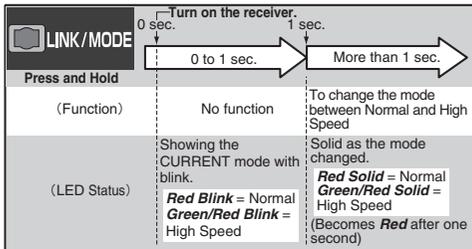
\*S.BUS port: R6202SBW can be used up to 7 channels or less on the "7ch" mode and 16 channels + DG1/2 or less on the "8ch/10ch/Multi-ch" mode. However, it differs according to the transmitter.

## Operation Mode Select

The factory-set operation mode is "Normal". To change the mode, follow these steps.

- 1 Turn off the receiver.
- 2 Press and hold the **Link/Mode** switch and turn on the receiver. Continue holding down the switch for more than one (1) second. The **LED** starts flashing with the current status.
- 3 Release the switch.
- 4 Turn off the receiver.

By doing this step, the mode can switch over between two(2) modes.



Please check the operation mode by observing the **LED** when turning on the receiver. If possible, to avoid conflicts make sure no **FASST** transmitters are turned on nearby .

When turn on the receiver, the **LED** will be:

- Red when on "Normal mode"
- Green and Red (makes Orange) when on "High Speed mode". (After two(2) seconds, change to Red.)

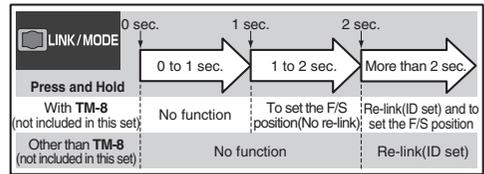
If a **FASST** transmitter is turned on near the receiver, the **LED** may show the above status briefly before changing to the status indication as shown in the "**LED indication**" table.

## Link to the transmitter

- 1 Press and hold the **Link/Mode** switch more than two(2) seconds.

## Re-adjust the F/S position (only for TM-8)

- 1 Press and hold the **Link/Mode** switch between one(1) and two(2) seconds.



## WARNING

Do not perform the linking procedure with the main motor wire connected as it may result in serious injury.

While linking, cycle receiver power to be sure the receiver is really under the control of the transmitter being linked.

## LED Indication

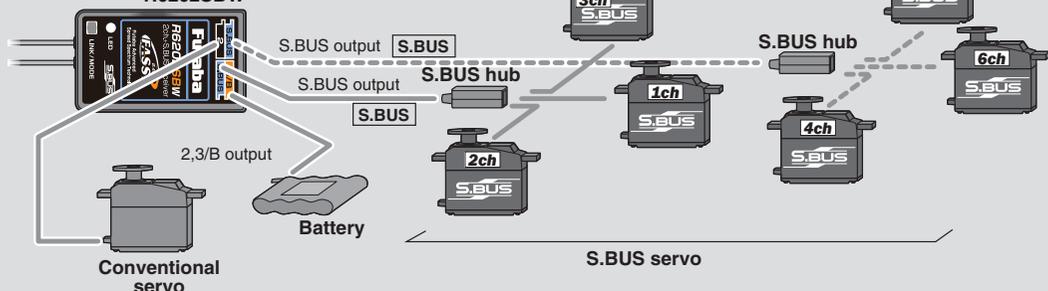
Green	Red	Status
<b>Solid</b>	<b>Solid</b>	Initializing when on "High Speed mode"
<b>Off</b>	<b>Solid</b>	No signal reception
<b>Solid</b>	<b>Off</b>	Receiving signals
<b>Blink</b>	<b>Off</b>	Receiving signals but ID is unmatched
<b>Alternate blink</b>		Unrecoverable error (EEPROM, etc.)

## What is S.BUS?

Unlike conventional radio systems, the **S.BUS** system uses data communication to transmit control signals from a receiver to a servo, gyro, or other **S.BUS** compatible device. This data includes commands such as "move the channel 3 servo to 15 degrees, move the channel 5 servo to 30 degrees"

to multiple devices. The **S.BUS** devices execute only those commands for their own set channel. For this reason, it can be used by connecting multiple servos to the same signal line.

### [Connection by S.BUS system]



\* Set the channel at the **S.BUS** servos by using an **SBC-1** channel changer or a **CIU-2** USB serial interface.

\* Can also be used together with conventional servos. However, conventional servos cannot be used by the **S.BUS** output.

\* When using servos with a remote battery pack, use **S.BUS** Hub with Cable (2-way/remote battery pack use).

Please refer to the instruction manual of **S.BUS** Hub with Cable (2-way/remote battery pack use) for the connection method.

1 Please turn on the power supply of the transmitter first without fail, and, next, turn on the receiver if you use **S.BUS**. Moreover, please use it after it confirms the operation without fail. Otherwise, the **S.BUS** communication cannot be judged and it is likely to malfunction.

2 The wiring for the **S.BUS** servo is replaced at power supply OFF. If you replace the wiring in power supply ON, **S.BUS** communications cannot be judged, and it seems to malfunction.

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