

Compatibility:

CORONA 2.4GHz Spread Spectrum FASST Compatible Receiver is designed to use with FUTABA FASST 2.4GHz transmitters, such as 3PM,3PKS,3VCS,3GR,4PK(S),TM7, TM8, TM10, TM14 or T6EX-2.4G, 7C-2.4G, 8FG, 10CG, 12FG. R4FA-SB and R6FA-SB receivers supply more useful mode for user. Firstly both R4FA-SB and R6FA-SB support FUTABA FASST not only air system but also surface system. Secondly R4FA-SB support 7-channels continuous PPM(both positive and negative) output ,RSSI output and S.BUS output, R6FA-SB support 6 channels high speed PPM(HS) mode optimize the helicopter fast response control and S.BUS output.

Under S.BUS output mode, both R4FA-SB and R6FA-SB supply 12 proportional channels and 2 DG channels. It means that R4FA-SB or R6FA-SB become 14-channel receiver when use S.BUS output.

Specifications:

Operating Current: 50mA max

Operating Voltage: 3.6 ~10V

Latency: R4FA-SB's description

14mS for independent 4 channels output and S.BUS output @ FASST multi-channel mode

21mS for Continuous PPM output and RSSI output@ FASST multi-channel mode

16mS for independent 4 channels output and S.BUS output @ FASST 7ch mode

24mS for Continuous PPM output and RSSI output@ FASST 7ch mode

14mS for independent 3 channels output@ FASST surface system C1 CODE mode

R6FA-SB's description

7mS for independent 6 channels (HS)output@ FASST multi-channel mode

14mS for independent 7 channels (LS)output and S.BUS output @ FASST multi-channel mode

8ms for independent 6 channels (HS)output@ FASST 7ch mode

16mS for independent 7 channels (LS)output and S.BUS output @ FASST 7ch mode

14ms for independent 3 channels output@ FASST surface system C1 CODE mode

Sensitivity: about -100dBm

Operation temperature:

-10~80 degC

Setup:

Bind procedure:

- Turn on the FASST transmitter
- Connect the battery to the receiver while pressing receiver's F/S button.
- The Dual-color LED's continuous will cycle through the following:
 - o Red LED light (searching radio signal)
 - o Green LED light (acquired the radio signal)
 - o Red LED off (bind ok)
 - o Green LED flashes 10 times (ID store in memory)
 - o Green LED lights solid (normally operation)

Note: FASST surface system take a bit more time to complete the bind procedure.

Fail-safe setting:

There are two ways to set the Failsafe setting on the CORONA 2.4GHz Spread Spectrum FASST Compatible Receiver;

1. TX-failsafe feature: This method is to set failsafe on the FASST transmitter and has priority (works on channel 3 only under FASST 7ch mode or on multiple-channels under FASST multi-channel mode) while the receiver is working on, just like the FUTABA receivers(only available on FASST air system).
2. RX-failsafe feature: Turn on FASST transmitter and turn on the CORONA 2.4GHz Spread Spectrum Receiver, put all the sticks and switches to where give the control inputs you want if the receiver loses signal and Press the F/S button down for

about 5 - 6 seconds while the Green LED light solid (Rx in normal operation), then release the button. You will see the Red LED will flash for about 4 - 5 seconds. (Note: The Red LED will FLASH high speed to indicate the RX-failsafe is turned on OR FLASH low speed to indicate the RX-failsafe is turned off). If you press the F/S button a second time while the Red LED is flashing, the receiver will change its RX-failsafe status (on / off), then the LED will return to Green solid again. If you not press the F/S button. Nothing will be changed and the LED will return to Green solid again. If you want to cancel the RX-failsafe feature (not just turn it off), you can do it by binding the receiver again. After binding operation the receiver will be back to factory settings without any failsafe feature.

Note: If you do not set a failsafe setting, the receiver will hold all controls at the position of the last command received before signal was lost. When RX-failsafe is turned on, the receiver will initiate the RX-failsafe settings after losing signal for over 1 second, the receiver will hold the last received positions until the failsafe takes over. When the RX-failsafe and TX-failsafe feature are both turned on, the receiver will use the TX-failsafe command.

We highly recommend you set failsafe feature while flying your models. An example of a useful Failsafe setting would be to shut down the model's throttle, so that it does not fly or drive away uncontrolled.

Output mode setting(only available on FASST air system):

Turn off the transmitter, connect the battery to the receiver, you will see the Red LED light flashing. The RED LED flash high speed to indicate receiver is in special output mode OR Low speed indicate receiver is under (LS) low speed PPM normal output mode, press the F/S button for 5-6 seconds while the Green LED is off (Rx in signal searching status), then release the button. You will see the Green LED will flash for about 4 - 5 seconds. (Note: The Green LED will FLASH high speed under special mode OR FLASH low speed under normal output mode). If you press the F/S button a second time while the Green LED is flashing, the receiver will change its output mode status (special/normal), if you not press the F/S button. Output mode will not be changed and the Red LED will flash at its original speed.

Note: Output mode function is described in the form below,

R4FA-SB		R6FA-SB	
normal	Ch1~CH4 independent PPM output	normal	Ch1~CH7 independent PPM output
special	CH1 <u>Neg</u> CPPM out(FUTABA trainer FUNC)^1	special	CH1~CH6 independent high speed(HS)PPM out for helicopter fast response control
	CH2 Pos CPPM out for special user^2		
	CH3 RSSI PWM out for FPV()^3		CH7 S.BUS output for compact system
	CH4 S.BUS output for compact system		

Note: ^1 refer the signal description picture below

^2 refer the signal description picture below

^3 refer the signal description picture below

RSSI PWM out define: Pulse width from about 900uS~2100uS to indicate rssi strength from -100dBm~-40dBm.

Important Note: If you are using analog servos in your model you must keep your receiver under the factory settings(normal output mode) or your analog servo will get hot or burn out. And you can not use a non S.BUS servo on the channel while S.BUS signal output present.

LED status indicated under normal working status;		
RED LED	GREEN LED	Status
flash	off	No signal searched
off	solid	Signal is very good
Sometime flash	solid	Signal is not very good
flash	flash	Signal is weak