X-BOSS™

AC900 receiver

AC940 receiver

AC SERIES RECEIVER

S-FHSS / ACCST D16 non-EU / ACCST D16 EU-LBT TRI-MODE RSSI RECEIVER

AC900 : size 10mm x 17.5mm, only 0.9g, S.BUS signal output, perfect fit small racing drone

AC940 : size 12mm x 23.3mm, only 1.2g (weight not include 2.54mm 3x4 pin), 4 channels 50Hz PWM + S.BUS
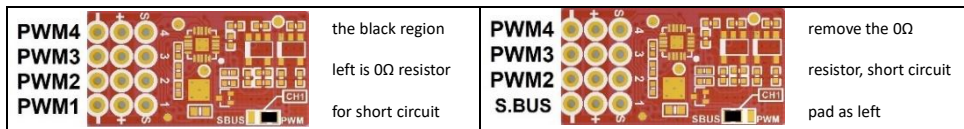
signal output, perfect fit small fixed wing

1. Support S-FHSS、ACCST D16 non-EU、ACCST D16 EU-LBT three modes.

2. S-FHSS support 14SG、16SZ、18SZ、18MZ etc. ACCST D16 non-EU and EU-LBT support X9D、X12S etc.

3. The channel 16 of S.BUS value is real-time RSSI, BETAFLIGHT OSD can display this RSSI value on screen.

4. Rated voltage 4.0V~6.0V, AC900 is S.BUS output, AC940 is 4 channels 50Hz PWM output when leaving

    factory, user can short circuit the pad to change to S.BUS + 3 channels 50Hz PWM output (see picture below).

PWM4 PWM3 PWM2 PWM1		the black region left is 0Ω resistor for short circuit	
PWM4 PWM3 PWM2 S.BUS		remove the 0Ω resistor, short circuit pad as left	

BIND: First blink after power on indicate the receive mode 🟥S-FHSS 🟩ACCST D16 non-EU 🟧ACCST D16 EU-LBT

S-FHSS BIND	ACCST D16 non-EU / EU-LBT BIND
Power on TX, then power on AC900/940 while pressing the key, **GREEN** LED fast blink meaning bind mode, user can release the key. **GREEN** LED solid when receiver bind completed. Brightness level of receiver's **GREEN** LED meaning signal strength.	Power off TX, then power on AC900/940 while pressing the key, **GREEN** LED fast blink meaning bind mode. Set TX to bind mode, **RED** LED solid when bind completed. TX need exit bind mode. Brightness level of receiver's **GREEN** LED meaning signal strength.

RECEIVE MODE SWITCH: When receiver **RED** or **GREEN** LED solid, Press the key and hold LED will go off, after 3 seconds **YELLOW** LED will turn on, release the key receiver will switch to another receive mode then restart automatic.

FAILSAFE: Please set failsafe in your radio, depend on the radio S-FHSS, ACCST D16 non-EU and ACCST D16 EU-LBT should have at least 2 failsafe settings as follow (different radio may name the setting differently):
1. *HOLD*,   S.BUS/PWM sent the value when received last time, we suggest switch channel use this setting.
2. *CUSTOM*,   this setting can custom S.BUS/PWM sent value when no signal.

In most cases, user can set AIL, ELE, YAW middle (*CUSTOM* 1500), THR low (*CUSTOM* less than 980), other switch channels use *HOLD.* In most cases please make sure **[ARM] / [DISARM]** channel failsafe setting *HOLD* in **[ARM]** value. Because if failsafe setting use **[DISARM]** value when briefly lost signal, the drone will switch to **[DISARM]** state, once the signal from radio received the drone maybe can't switch to **[ARM]** state because THR high (more than 1000), this will result crash when briefly lost signal. So **[ARM] / [DISARM]** channel failsafe should *HOLD* in **[ARM]** value or *CUSTOM* in **[ARM]** value, if signal lost a long time because THR low (less than 980), drone will just crash, not fly away. **Before first flight, we suggest remove propeller then [ARM] the drone, push THR middle make motor rotating, power off the radio to simulate lost signal, motor should STOP or IDLE rotating, correct failsafe setting is when power on the radio drone should can control immediately not need do [ARM] / [DISARM].**

20 Jul 2020 version 1.0