

TACTIC™
2.4GHz

ANY LINK™

2.4GHz Radio Adapter

INSTRUCTION MANUAL



The AnyLink SLT 2.4GHz Radio Adapter allows nearly any R/C transmitter (Tx) to bind with Tactic's ultra-small, lightweight, and inexpensive 2.4GHz stand alone receivers (Rx). Futaba® and Hitec® brand transmitters must have a trainer jack. JR® and Spektrum® transmitters must have a trainer/D.S.C. jack. See page 16 for a Tx compatibility chart. Such transmitters can originally be designed for use on 72MHz, 2.4GHz, FM, PCM, etc. The acceptable flying range with AnyLink and a Tactic receiver is 1000 feet.



Read this manual in its entirety before use!
Damage resulting from misuse or modification will void your warranty.

ITEMS INCLUDED

- (1) AnyLink 2.4GHz Radio Adapter
- (1) Futaba Square Adapter Cable
- (1) JR/Spektrum Adapter Cable
- (2) Lengths of hard locking adhesive strips
1"(25.4mm) x 1.5" (38mm)

MOUNTING ANYLINK



Mount AnyLink high on the rear of the Tx, and extend its antenna to point upwards from the top of the Tx as much as possible. Rotate the antenna as shown above. Two strips of hard locking fasteners are included for attaching AnyLink to the rear of the host Tx.

PREPARATIONS AND CONNECTIONS



IMPORTANT! Remove the airplane's propeller prior to setting up AnyLink to work with the flight system. Failure to do so could result in personal injury if the motor unexpectedly turns during setup.

1. Remove the Rf module or crystal from the host Tx if possible.
2. Leave the Tx's own antenna in a retracted or folded position as it will not be used.
3. For computer radios on 72MHz, make sure the modulation is set to PPM mode.
4. Cables are included for attaching AnyLink to Futaba radios having a square trainer jack, and compatible JR/Spektrum radios. The cable with three connectors is for JR and Spektrum. Cables for Futaba and Hitec transmitters with round trainer jacks, Hitec Aurora, and other type transmitters are available separately (see page 10).

5. With the appropriate cable, insert the universal-style servo plug into AnyLink's INPUT JACK.



Futaba transmitters: For computer radios which offer the option to transmit a signal when Tx power is turned ON, make sure “YES” is selected. Then turn the Tx power switch OFF. Connect the cable’s square trainer plug to the Tx trainer jack and skip to the next section.

For use with Futaba 18MZ transmitters, it will be necessary to make the following settings in the transmitter:

System type:	FASSTest 12CH
Training mode:	student mode, 8ch

JR and Spektrum Transmitters: Using the JR/Spektrum cable, connect the “Signal Plug” (similar to a headphone jack) to the transmitter’s trainer/D.S.C. jack. The transmitter’s logic circuit will turn on automatically, which is normal. Do NOT connect the Power Plug to the Tx at this time.

Spektrum’s DX4e, DX5e, DX7s, DX8, and DX10T transmitters require an optional adapter to function with AnyLink. See your local hobby retailer for details on Tactic’s AnyLink Power Adapter (TACM0005).

⚠ WARNING! When not in use, ALWAYS disconnect the Power Plug from the charge jack BEFORE disconnecting the Signal Plug from the trainer jack. Failure to do so could result in a short-circuit condition inside AnyLink and the Spektrum Tx.

ANYLINK OPERATION

! **IMPORTANT!** Make sure the Tx battery is at full charge prior to operation. Replace weak alkaline batteries, or fully charge rechargeable batteries before attempting a flight. To avoid accidental power or signal loss which would result in loss of control of the model, make sure all connections are solid physically and cannot easily become dislodged at any time.

The factory default setup for AnyLink is for all output channels to be mapped identically to the signal from the host transmitter. i.e. All Tx stick movements should result in proper servo movements. It is possible to manually re-configure AnyLink for alternative channel mapping, if desired (explained in next section). **IMPORTANT:** To set a specific failsafe position for throttle with JR and Spektrum transmitters, the alternate channel mapping mode must be used (skip to page 5). For normal operation:

1. Move the Tx throttle stick to minimum. Leave all other sticks at center.
2a. **Futaba and Hitec transmitters:** Turn the Tx power switch ON. AnyLink should sound one beep, and AnyLink's LED should turn on. Skip to step 3.

2b. **JR and Spektrum transmitters:**

Connect the cable's "Power Plug" to the Tx charge jack as shown. AnyLink should sound one beep, and AnyLink's LED should turn on.



! **WARNING! Do NOT turn the JR or Spektrum Tx power switch to the ON position at any time!** This will cause AnyLink to stop sending signal to the Tactic Rx and result in a loss of control of the model! The JR/Spektrum Tx power switch should ALWAYS remain in the OFF position when controlling a model with AnyLink.

3. Apply power to the Rx and servos in the model. If setting up a Tx/AnyLink to the Tactic Rx for the first time, insert a small diameter screwdriver in the hole on the Rx marked “BIND”. Press and hold the button until the Rx LED turns on, then off after about one second. Release the bind button, and the LED should turn on if binding was successful. Check to make sure all Tx controls are properly mapped at the Rx, as listed in the table.

NORMAL CHANNEL MAPPING		
	FUTABA and HITEC	JR and SPEKTRUM
CHANNEL 1	<i>Aileron</i>	<i>Throttle</i>
CHANNEL 2	<i>Elevator</i>	<i>Aileron</i>
CHANNEL 3	<i>Throttle</i>	<i>Elevator</i>
CHANNEL 4	<i>Rudder</i>	<i>Rudder</i>

See page 7 for complete failsafe details.

4. If all channels are mapped properly, skip to page 7 for more details regarding Rx operation. If some channels are NOT mapped correctly, or you prefer to manually change the channel mapping, proceed to the ALTERNATE CHANNEL MAPPING section below.

ALTERNATE CHANNEL MAPPING

To manually switch AnyLink to alternative channel mapping:

1. Remove power from the Rx and servos in the model.
2. Center the Tx rudder trim, and move the throttle stick to minimum.
3. For Futaba and Hitec transmitters, turn the power switch OFF. For JR/Spektrum transmitters, disconnect the “Power Plug” from the Tx charge jack.
4. Move the Tx rudder stick to the far bottom-left or bottom-right corner and **HOLD IN THIS POSITION**.
5. For Futaba and Hitec transmitters, turn the power switch ON. For JR/Spektrum, re-connect the “Power Plug” to the Tx charge jack.

6. AnyLink's LED will turn on. Wait 5 seconds and AnyLink will sound three tones ●●● to indicate the Alternate Channel Mapping mode has been entered.

7. Release the rudder stick. AnyLink should sound two tones ●● to indicate the mapping has been changed. The chart below shows how the channels should now be mapped **depending on the type of Tx that is connected**. **IMPORTANT:** Make sure all servos are connected to the proper receiver slot accordingly.

ALTERNATE CHANNEL MAPPING		
	FUTABA and HITEC	JR and SPEKTRUM
CHANNEL 1	<i>Elevator</i>	<i>Aileron</i>
CHANNEL 2	<i>Throttle</i>	<i>Elevator</i>
CHANNEL 3	<i>Aileron</i>	<i>Throttle</i>
CHANNEL 4	<i>Rudder</i>	<i>Rudder</i>

See page 7 for complete failsafe details.

8. Check to see if all channels are properly mapped between the Tx and the model's flight system. If NOT, repeat steps 1 through 7 above to return AnyLink to its "NORMAL CHANNEL MAPPING" as explained on page 4 which is indicated by AnyLink sounding one tone when power is applied.

NOTE: *If AnyLink's Alternate Channel Mapping mode cannot be entered for any reason, changing the servo connections at the Rx to properly match the controls of the Tx can still allow AnyLink to function properly with your Tx.*

TACTIC RECEIVER

Install the Tactic Rx as explained in the instructions included with the Rx/model. Follow these steps to bind AnyLink to the Tactic Rx:



IMPORTANT! Remove the propeller from the airplane prior to checking the operation of AnyLink. Failure to do so could result in personal injury if the motor unexpectedly turns during setup.

1. Make sure the Tx throttle stick is in the MINIMUM power position.
2. Apply power to AnyLink and host transmitter.
3. Apply power to the Tactic Rx.
4. If the Rx LED flashes once and then stays on, the Rx is already bound to AnyLink from a previous use. Otherwise, insert a small diameter screwdriver in the hole on the Rx marked "BIND". Press and hold the pushbutton until the Rx LED glows red and then turns off after about one second.
5. Release the "BIND" button. The LED will flash once and then remain ON if bound successfully.
6. Test for proper communication with the Tx/AnyLink. If the system doesn't appear to have become properly bound, repeat steps 1-5.

FAILSAFE FUNCTION: Many of Tactic's flight receivers include a failsafe function which can engage if the radio signal from AnyLink somehow becomes interrupted. Refer to the instructions included with your Tactic Rx to determine if it includes the failsafe function.

If radio signal is broken, the Rx failsafe feature can cause the servos to automatically move either to a certain position, or hold their last position to prevent the model from moving in an erratic manner. Refer to the instructions included with the Tactic Rx to determine which channels can enter a "hold" mode. The servo connected to **Rx CH3** will move to a pre-set position. The factory default is 0% (minimum) for **Rx CH3** which should cause motor/prop movement to stop if the Rx loses signal from the Tx. The **Rx CH3** servo's failsafe position can be manually re-set to any other position if desired, as follows:



IMPORTANT! Before manually resetting the failsafe, make sure the Tx servo reversing settings are in the correct position for the application. If using a JR or Spektrum transmitter and signal is lost with the Rx, the throttle channel cannot be manually pre-set to deflect to a certain position for fail-safe. The throttle channel will default to hold it's last position.

1. Apply power to the Tx/AnyLink and Rx.
 - 2a. If using an ESC, do NOT arm the ESC. Do NOT attempt to adjust the throttle's failsafe position if the ESC is armed.
 - 2b. If using a gas or glow powered engine, do NOT attempt to adjust the throttle's failsafe position while the engine is operating.
3. Move the Tx throttle stick to the desired position for the throttle control to move if the Rx goes to failsafe.
4. Press and hold the "BIND" button on the receiver, and the Rx's LED should blink twice. Release the BIND button, and the Rx LED should turn on (stop flashing). The Tx and Rx should now be bound, with the throttle failsafe in the new position as set above.

SYSTEM CHECK AND OPERATION

Check the general operation of the system and all flight equipment before attempting a flight.



WARNING! During all pre-flight preparations with the aircraft on the ground, make sure the throttle stick remains at the minimum position and do not stand the Tx upright on the ground. Carefully lay the Tx on its back on the ground to prevent it from falling over and possibly dislodging the throttle stick from the low position which would create a safety hazard. Make sure all devices are properly mounted inside the model, and all wiring connections are solid to prevent them from easily becoming dislodged during normal flight. It's best to check the system with the propeller removed from the aircraft.

Channel Mapping: If controls in the model do not function according to the control inputs from the Tx, reset the system by repeating all steps in the AnyLink Operation section on page 4. Proceed to the next step once all channels are mapped properly.

Range Check: Determine the safe operating distance from the Tx to the Rx. With the assistance of another person, place the aircraft on the ground and walk 100 feet (30m) away from the model. Confirm that smooth, interference-free control of all surfaces exists.

Failsafe Check: If using the failsafe feature on a Tactic Rx, test for proper operation as follows:

1. Prepare a way to quickly disconnect the battery/ESC connection if power needs to be cut immediately.
2. Have an assistant hold the aircraft in place on a test stand, with hands away from the motor.
3. Apply power to the system and test the motor and flight gear for general operation.
4. Remove power from the Tx/AnyLink: turn off the power switch on Futaba/Hitec transmitters, or for JR/Spektrum transmitters disconnect AnyLink's power plug from the Tx charge jack.
5. Observe the model's surfaces to ensure they move to the previously set failsafe positions.
6. If failsafe operation is correct, re-connect power to the system as explained earlier and prepare for flight. If the failsafe function does not operate correctly, re-check the TACTIC RECEIVER and SYSTEM CHECK AND OPERATION sections and re-try.

INACTIVITY ALARM AND POWER-DOWN PROCEDURES

Inactivity Alarm: If power is applied to AnyLink but the Tx sticks are not moved for 4 minutes, AnyLink will sound tones to alert that power is still ON and AnyLink is still transmitting a signal. Follow the step below to remove power from AnyLink.

Turning off AnyLink: When finished flying and power has safely been removed from the model, AnyLink needs to be turned off. For Futaba and Hitec transmitters, simply turn the Tx power switch OFF. For JR and Spektrum transmitters, disconnect AnyLink's power plug from the Tx charge jack. AnyLink's LED will turn off.

IMPORTANT Special Note for JR and Spektrum Radios: Once power has been removed from AnyLink as explained above, it's also necessary to disconnect AnyLink's signal plug from the Tx trainer/D.S.C. jack. Failure to do so will cause the logic circuit in the radio to remain powered and discharge the battery in the Tx.

TACTIC ACCESSORIES

TACLO324	TR324 3-Channel 2.4GHz Receiver
TACLO624	TR624 6-Channel 2.4GHz Receiver
TACM0001	AnyLink SLT 2.4GHz Adapter Cable (Futaba Square)
TACM0002	AnyLink SLT 2.4GHz Adapter Cable (JR, Spektrum)
TACM0003	AnyLink SLT 2.4GHz Adapter Cable (Futaba/Hitec Round)
TACM0004	AnyLink SLT 2.4GHz Adapter Cable (Hitec Aurora)
TACM0005	AnyLink SLT 2.4GHz Power Adapter (Spektrum DX4e/5e/7s/8/10T)
TACM0006	AnyLink SLT 2.4GHz Adapter Cable (Futaba 12Z, 14MZ)

SPECIFICATIONS

Compatible Tx's:	Futaba, Hitec, JR, and Spektrum transmitters, 9 channels maximum
Compatible Rx's:	Tactic brand receivers
Frequencies:	2.403 – 2.480GHz
Modulation:	FHSS spread spectrum
Power indicator:	LED with audible tones
Inactivity alarm:	audible tones after 4 minutes of Tx stick inactivity
Output power:	< 0.1W
Case dimensions:	64 x 36 x 12mm (2.5 x 1.4 x 0.5")
Weight:	24g (0.85 oz.)

IMPORTANT WARNINGS AND PRECAUTIONS

- Do not allow water or moisture inside AnyLink, which could cause failure or malfunction and poor control of aircraft and pose a safety hazard.
- Do not operate R/C model aircraft near power lines, radio or cell phone towers, roads or automobiles, buildings, or pedestrians.
- Do not operate R/C equipment if you are physically impaired as it could pose a safety hazard to yourself or others in the area.
- Do not allow small children to operate/control model R/C equipment without the supervision of an adult.
- Do not allow the Tx's throttle stick to accidentally be moved away from the "off" or minimum position while the model's engine/motor is moving.
- Do not store your radio equipment in extremely hot or cold locations, in direct sunlight, or in locations with high humidity. Store R/C equipment in cool and dry locations.
- Do not allow chemicals to come in contact with any parts of AnyLink. Substances such as glow fuel, gasoline, CA glue, etc. could permanently damage the case and electronic components.
- Always range check the radio system before use.
- Always make sure all Tx stick movements operate all servos properly in the model. Check the proper operation of control surfaces before and after starting the engine/motor.

TROUBLESHOOTING

RANGE IS SHORT:

Interference – *Check Rx installation and servo connections.*

Low Tx or Rx battery – *Replace the batteries or recharge as needed.*

AnyLink case and/or antenna not oriented properly – *Rotate AnyLink on Tx, or re-direct position of the antenna.*

Rx location – *Relocate the Rx to a different position in the model for better reception.*

RUN TIME IS SHORT:

Low Tx battery – *Replace or recharge the batteries.*

POWER IS APPLIED TO ADAPTER BUT SERVOS DO NOT FUNCTION:

Tx or Rx batteries are low – *Replace or recharge the batteries.*

Rx switch off – *Turn on the ESC or switch harness.*

Switch harness or ESC is connected incorrectly – *Check all connections and the ESC instruction manual.*

Rx not bound to AnyLink – *Perform binding process again.*

INTERFERENCE OR SERVOS GLITCHING:

Out of range – *Operate the model more closely to the Tx.*

AnyLink case not oriented properly – *Rotate AnyLink on Tx.*

Rx or ESC location – *Relocate the Rx and/or ESC away from the engine, motor, servos, or linkages for better reception.*

WRONG CONTROL SURFACES MOVE IN RESPECT TO TX INPUT:

Repeat all steps in AnyLink Operation section on page 4.

CONTROL SURFACE MOVES IN THE WRONG DIRECTION:

Reverse the position of the Tx's reversing switch for the appropriate channel.

ONLY ONE SERVO GLITCHES:

Servo is bad – Replace or repair the servo.

FUTABA RADIO CAN'T BE CHANGED TO ALTERNATE MAPPING:

Turn off Tx. Disconnect trainer plug from Tx. Turn Tx back on. Move rudder stick to bottom-left or bottom-right and hold in this position.

Connect the trainer plug to the Futaba Tx. Wait 5 seconds and return to step 6 on page 6.

FCC STATEMENT

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.

FCC Rf Radiated Exposure Statement: The equipment complies with FCC Rf radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC ID: IYFTTX24GA

CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

Instructions for Disposal of Waste Equipment by Private Users in the European Union: This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

Declaration of Conformity:

Product: Tactic AnyLink SLT 2.4GHz Radio Adapter Item number:
TACJ2000

Equipment class: 1

Tactic AnyLink SLT 2.4GHz Radio Adapter:

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European 2006/95/EC Low Voltage Directive:

EN 60950-1:2006 + A11: 2009 + A1: 2010

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1995/5/EC:

ETSI EN 300 328 V1.7.1 (2006-10)

Technical requirements for radio equipment

ETSI EN 301 489-1 V1.8.1 (2008-04), 301 489-17 V2.1.1 (2009-05)

General EMC requirements for radio equipment

Tactic

c/o Hobbico®, Inc.

2904 Research Road

Champaign, IL USA 61826



CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use.

UK	DE	DK	BG	SE	FI	
EE	LV	LT	PL	CZ	SK	HU
RO	SI	AT	IT	ES	PT	IE
NL	LU	MT	CY	GR		

1-YEAR LIMITED WARRANTY – *U.S.A. AND CANADA ONLY

Tactic warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. During that period, Tactic will, at its option, repair or replace without service charge any product deemed defective due to those causes. You will be required to provide proof of purchase (invoice or receipt). This warranty does not cover damage caused by abuse, misuse, alteration or accident. If there is damage stemming from these causes within the stated warranty period, Tactic will, at its option, repair or replace it for a service charge not greater than 50% of its then current retail list price. Be sure to include your daytime telephone number in case we need to contact you about your repair. This warranty gives you specific rights. You may have other rights, which vary from state to state.

For service on your Tactic product, send it post paid and insured to:

HOBBY SERVICES

3002 N. Apollo Dr., Suite 1

Champaign, IL 61822

Tel: (217) 398-0007 (9:00am - 5:00pm CST, M-F)

E-mail: hobbyservices@hobbico.com

- This product is suitable only for people of 14 years and older. This is not a toy!
- **WARNING: CHOKING HAZARD** - May contain small parts. Keep away from children under 3 years. Please retain packaging for future reference.
- No part of this manual may be reproduced in any form without prior permission.
- The contents of this manual are subject to change without prior notice.
- Tactic is not responsible for the use of this product.

AnyLink Transmitter Compatibility Chart*		*Required optional adapter cable			
		TACM0003	TACM0004	TACM0005	TACM0006
Futaba®	4YF, 4YBF, 6J, 6EX, 7C, 9C, 8FG, 10C, 12FG, 18MZ	4VF, 5U, 6DA, 6H, 6A, 6YG, 6YF, 7NFK, 8U, 9Z			12Z, 14MZ
Hitec®		Prism 7 & 7X; Focus 4 & 6; Flash 4sx; Flash 5 & 5sx; Eclipse7; Neon Optic 5 & 6; Laser 4 & 6	Aurora 9		
JR®	10X, XP610Z, XF421, XP783, X9503, X9303, XP8103, X388S				
Spektrum®	DX6, DX6i, DX7			DX4e, DX5e, DX7s, DX8, DX10T	
Tower Hobbies®	4TH, 6XM	4FM, 6FM			

** Transmitters not listed above may or may not be compatible with AnyLink.*

Check Tx-Ready.com for updated compatibility chart.