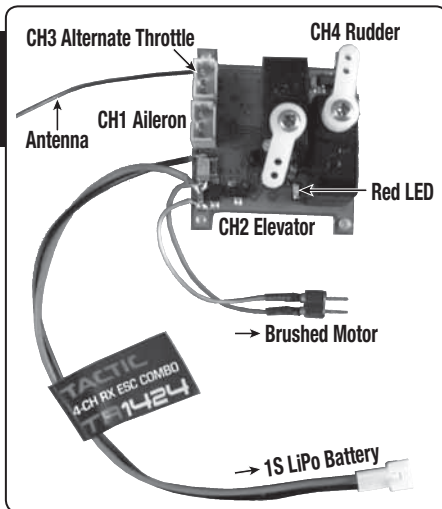


## TR1424

2.4GHz 4-CHANNEL Rx, ESC,  
SERVO COMBO BOARD



The TR1424, with built-in SLT 4-channel Rx, brushed ESC, and twin 1 gram servos, also includes a micro servo connection for attaching a servo or 1S brushless ESC for alternative control of throttle. Intended for small electric aircraft, it's compatible with all Tactic brand 2.4GHz aircraft transmitters, and other brand radios which include the SLT protocol.

## INSTALLATION AND CONNECTIONS

Refer to the instructions with the aircraft to determine the optimum position for installing this combination board.



**IMPORTANT!** Pay close attention to how this board is oriented inside the model. Make sure to keep the antenna and both on-board servo arms unobstructed at all times.

**BATTERY:** Only use 1S LiPo batteries having a micro style connector. Connect the battery to the red/black wire having the white 1S socket. Make sure the battery is fully charged prior to use.

**ELEVATOR AND RUDDER SERVOS:** The 1g servos are directly controlled by channels 2 and 4. Connect the servo arms as described in the model's instructions, making sure both output arms can make their full range of movement without obstruction. Make sure the reversing setting in the Tx allows each servo to rotate in the proper direction.

**AILERON CONTROL:** If aileron control is needed, connect a separate servo with micro connector to the "CH1 aileron" socket.

**THROTTLE CONTROL:** The built-in brushed ESC has a maximum current rating of 4 amps and is directly connected to the throttle

channel. Make sure to set the transmitter's throttle channel to reverse for proper control (idle to full throttle). Connect the motor to the lead with twin male terminals noted as "Brushed motor", with the red wire being positive (+) polarity and blue wire being negative (-).

To arm the ESC, once power is applied to the TR1424 with the Tx throttle stick at minimum the ESC will beep once. Move the Tx throttle stick to maximum and the ESC will again beep once. Move the throttle stick back to minimum and the ESC should beep twice, indicating the ESC is now armed.

For alternative throttle control, a separate micro servo or 1S brushless ESC with micro connector can be connected to the "CH3 alternate throttle" socket. Configure the ESC as per the instructions included with the ESC.

## LINK THE RECEIVER TO THE TACTIC/SLT COMPATIBLE TRANSMITTER

The TR1424 includes an auto-linking process (no linking pushbutton). For best results, link the TR1424 to the intended transmitter *before arriving at the flying site*, then remove power. The linking procedure is as follows:



**WARNING!** Do NOT apply power to the receiver before the intended transmitter is turned on! Otherwise, the TR1424 may try to auto-link with another transmitter in the area which might also be broadcasting an SLT signal. Failure to do so could result in the model's motor/propeller suddenly starting to spin unexpectedly, and cause bodily injury.

1. Turn on the Tx.
2. With the TR1424 close by the transmitter, apply power to the Rx.
3. The TR1424 will automatically attempt to link to the Tx. The LED should flash once and then stay on when linked.

4. Test for proper Tx/Rx functionality before use. If a solid link doesn't exist, repeat steps 1–3. The TR1424 will link to the nearest Tactic SLT transmitter which is broadcasting a signal. If not pre-linked to the proper Tx, move to a location where the TR1424 can only see the signal from the intended transmitter and re-link.

*If the Rx suddenly loses signal from the Tx, or the Rx is powered without the transmitter being turned on or no other SLT transmitter in the area is broadcasting a signal, the receiver will go to failsafe mode: The TR1424's failsafe function forces all outputs to hold their last recognized position if the signal from the Tx somehow becomes lost.*

## SYSTEM AND RANGE CHECK

Check the instruction manual included with the Tactic radio for the proper steps to perform a system check before flight. The TR1424 receiver has an operating range of approximately 725 feet (225 meters) if the receiver/antenna are unobstructed by other components in the airplane, and approximately 215 feet (65 meters) if obstructed. Leave the Rx antenna as unobstructed by other components as much as possible.



**WARNING!** Always make sure that power is applied to the transmitter BEFORE applying power to the receiver, and the Tx throttle stick is at minimum (idle) position. Failure to do so could result in the model becoming uncontrollable and cause a safety hazard. It's best to check the system with the propeller removed from the aircraft.

Always perform a signal range check to ensure a good link exists between the transmitter and receiver at distance. Once flight is complete, immediately disconnect power from the aircraft before removing power from the transmitter.

## 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.

## 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 TR1424 2.4GHz 4-Channel Receiver, ESC, Servo Combo Board  
**Item number:** TACL1424



The object of the declaration described here is 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+A12:2011** Safety

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

**EN 300 328 V1.8.1** Technical requirements for radio equipment  
**EN 301 489-1 V1.9.2** General EMC requirements for radio equipment  
**EN 301 489-17 V2.2.1**  
**EN 62479:2010** SAR evaluation

**Tactic** c/o Hobbico, Inc. ● 2904 Research Road ● Champaign, IL USA 61826

## SPECIFICATIONS

**Channels:** 4

**Receiving frequencies:** 2.403 – 2.480GHz

**Modulation:** SLT 2.4GHz FHSS

**Compatibility:** Tactic 2.4GHz or SLT 2.4GHz transmitters

**Input power requirement:** 3.0 - 4.20V, 1S LiPo micro connector

**Power indicator:** red LED

**Range:** obstructed 215ft (65m), unobstructed 725ft (225m)

**Elevator, rudder servo torque:** 1.6 oz-in at 4.2V (0.065kg-cm)

**Elevator, rudder servo speed:** 0.05 sec. @ 60° rotation

**Brushed ESC max. current:** 4 amp

**Dimensions:** 1.06x0.91x0.71" w/o wires (27x23x18mm)

**Weight:** 0.166 oz (4.7g)

## 1-YEAR WARRANTY

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.

For service on your Tactic product if purchased in the **U.S.A.**  
**or Canada**, send it postpaid 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: hobbyervices@hobbico.com

For service on your Tactic product if purchased in the **European Union**, send it postpaid and insured to:

Service Abteilung Revell GmbH  
Henschelstrasse 20-30  
32257 Bünde Germany  
Tel: 01805 110111 (nur für Deutschland)  
Email: Hobbico-Service@Revell.de

- 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.

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TACL1424 v2 Made in China

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