Radiopost™

User Manual for RF module/Receiver

TX (RF module) RX (Receiver)

- RP24TD9
- RP24TD9J

- RP24RA5D
- RP24RA6D
- RP24RA8D

Be sure to read a user manual before its usage

NEXTLINK

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Product Overviews

When it comes to the existing RF module/Receiver for PC, it is impossible to use the same frequency at the same time due to the interference between frequencies, which resulting in low reuse of frequency. Also the said product has lots of problems such as vulnerability to outside signals and multi users' inconvenience for spontaneous use.

This product employs digital communication method in 2.4GHz of ISM band to take care of the said interference between frequencies and also fast transmission rate and fine resolution for flexible operation.

It is designed so that unique ID would be assigned for each RF module and related Receiver and RF module should communicate mutually using the said ID for ID setting. In other words, Receiver has only ID of RF module finally set and get only data transmitted from the said RF. Also for interference between wireless frequencies, it check-ups RF environments to acquire stable communication on ID setting that in turn be sure to configure the most superior channel as communication one.

For the said features, RF module and Receiver can perform related functions without any data loss even for external interference.

Cautions and safety

⚠ Safety

Be sure to read User manual before its usage

Do not attempt to dismantle product. Otherwise it may result in malfunction

For RF module and Receiver, it should be attached after turn off power (control and model)

After connecting RF module to control, be sure to position control's throttle level on stop and turn on control power and Receiver one in order.

⚠ Caution

When turning off power, be sure to turn off engine or motor and then receiver power and control one in order.

In case of wrong operation, there may be a danger of spontaneous miss-operation.

Be sure to take an operation test between RF module and Receiver before its control

Be sure to operate each channel for normal operation. If there is any problem, never attempt to operate it.

For Receiver attachment, please make a dust-proof device from Styrofoam. Especially dust-proof procedure may be recommended for engine part

Do not attempt to modify antenna's length voluntarily

Please make sure that antenna should not be covered with airframe's internal section or lid with metal paint or carbon fiber. Otherwise it may decrease radio wave's efficiency.
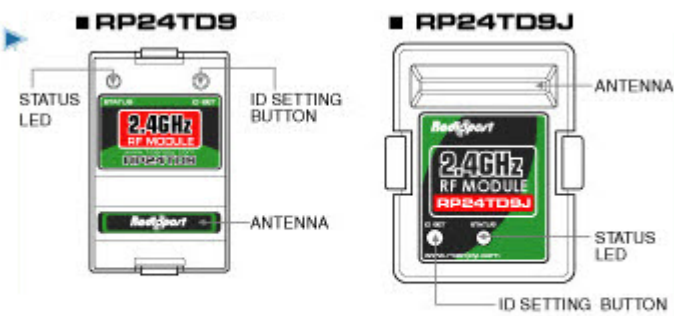
Do not use any combination of Radiopost RF module and other vendor's Receiver or reversely.

We never hold any responsibility for any damages from any combination with other vendor's receiver or RF module.
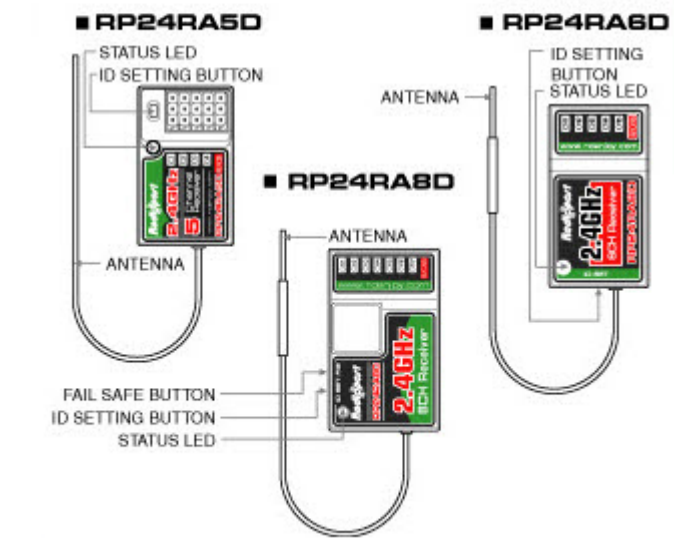
Designation of each part by model

Futaba/Hiltec controller   JR controller

RF module

Receiver

Product Features

Superior stability with 2.4GHz band
2.4GHz auto channel configuration (no crystal required)
Confirmation of ID-setting with Sound could be possible
Excellent binding speed

RF module

As RF module's antenna is internal type, it gives convenience when attaching a stand on a controller.
Radipost RF module's antenna gives high efficiency (7dBi) compared with the existing antenna's efficiency (2-3dBi)

Radipost RF module can communicate with Radiopost Receiver at all channels.

Receiver

It may be strong and has wide range of operation and good durability.
It is a high sensitive receiver not interfered with mixed modulation and inter-modulation
It employs stable top-notch digital technology
As it adopts digital method with MCU, It is possible to operate stably
It is a universal type that may be used under optimal conditions for helicopter, glider, airplane, vehicles, etc.

As it can recognize only user's RF module with advanced set, it is possible to be out of No Control situation

For worst circumstance, it can prevent dangers with Fail Safe function. (only for RP24RS8D)
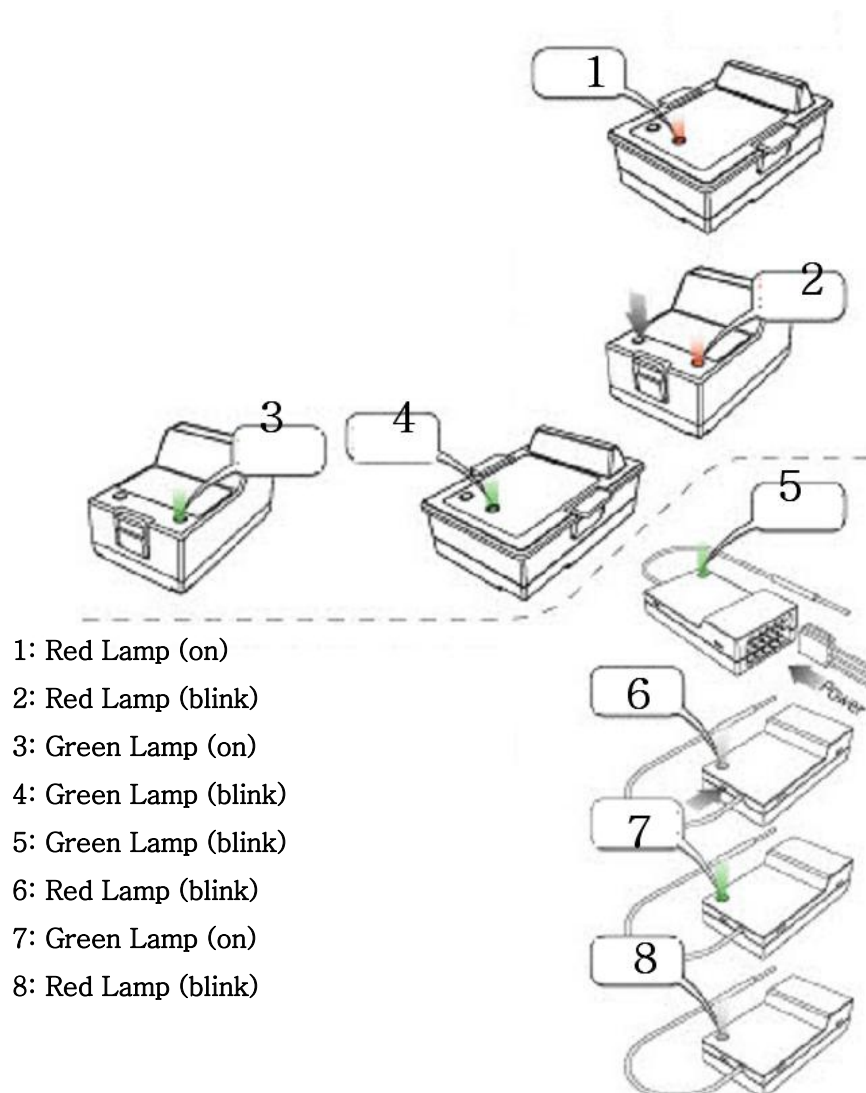
LED Display

RF module

When you apply power at the first purchase, LED may stay in red

When you press ID-setting button, ID-setting mode displays and LED may blinking in red

When ID-setting completes, LED turns to green and stay in that color

When you apply power to RF module only without Receiver after pairing, it may start to search for Receiver and LED may blink in green.

1: Red Lamp (on)

2: Red Lamp (blink)

3: Green Lamp (on)

4: Green Lamp (blink)

5: Green Lamp (blink)

6: Red Lamp (blink)

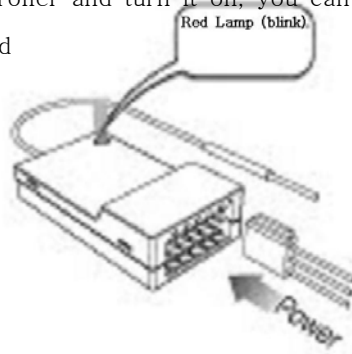7: Green Lamp (on)

8: Red Lamp (blink)

How to use

Be sure to select RF module suitable for controller and confirm connector's position and assemble it

For Receiver, be sure to confirm polarity of servo and battery before connecting them properly.

When you connect RF module to controller and turn it on, you can hear a sound of "pi" three times and LED turn on and remain in red

Be sure to apply power to Receiver

When you apply power to Receiver, white LED on Receiver is blinking

When you press ID-setting button of RF module for a second, it enters into ID-setting and red LED of RF module is blinking

When you press ID-setting button of Receiver for a second, it enters into ID-setting and red LED of RF module is blinking

When ID-setting of RF module and Receiver completes, RF module's LED turns to green. When you can hear a sound of 'pi" two times, it indicates that ID-setting completes.

Be sure to move the lever of controller and confirm operating status of servo finally.

Fail Safe (RP24RA8D model only)

This is a function that move servo to pre-set position against radio disturbance during its flight

If you place a controller to neutral position and turn throttle into idle or motor-stop status for Fail Safe configuration and the said function works due to the receive interruption, servo may move to pre-set position till signal would sensed for minimizing the destruction of air-frame.

How to set up Fail Safe

How to turn on Fail Safe

Be sure to turn power of RF module and Receiver in order and move a controller to confirm operating status of servo and Paring.
Be sure to operate a controller to move servo to Fail Safe position

When you press Fail Safe button for 3 seconds, red led is flickering for Fail Safe mode

How to turn off

When you press Fail Safe button for 3 seconds, red led is flickering and Fail Safe mode is disabled.

When you attempt to set up Fail Safe with a Receiver connected to a device, be sure to turn engine power channel into hold or power source should be disconnected.

Specifications

	RF Module		Receiver		
Model	RP24TD9	RP24TD9J	RP24RA5D	RP24RA6D	RP24TRA8D
Frequency	2.405-2.480GHz		2.405-2.480GHz		
Power consumption	117mA		47mA		
Dimension	37.2 x 60 x 32.5mm	52.6 x 64.1 x 29.8	22.3 x 37.2 x 13.3	22.9 x 42 x 11.8	28.5 x 46.8 x 12
Weight	28.5g	30g	7.5g	8.5g	18g
Operating Temperature	-20 to 60℃		-20 to 60℃		
Voltage Rated	9.6V (6.4 to 16V)		4.6V (4.6 to 16V)		

Controllers compatible

This product is compatible for controller supporting PPM mode

Futaba

FF7A, FF9, 10C (Airplane/Helicopter)

Mega Tech 3PM-FS, 3PK (Vehicles)

Hiltec

OPTIC 6, ECLIPSE (Airplane/Helicopter)

Aggressor CRX, Aggressor SRX, Eclipse Procar (Vehicles)

JR

9X LIMITED, 10X (Airplane/Helicopter)

Product Warranty

1. For product's warranty period, it is one year from a date of its purchase. If there is any problem under normal use within the said period, we have to repair with no charge.
2. If the following things occur within warranty period, you may take a charge service

■ Malfunction caused by user's careless handling

■ User's dismantle, repair, alteration at his (or her) own will

■ Malfunction caused by other repair center or personnel than our service technician or designated after-sales service center

■ Malfunction caused by natural calamities

■ Consumption goods replacement

■ if there is no information such as date of purchase, customer name, store name or such information would be modified by customer voluntarily

3. For any responsibility related with this product, it should be limited to its repair or replacement.
4. When there is any problem for product, please contact with related store or call the following contact address

Model	RF module	RP24TD9/RP24TD9J
	Receiver	RP24RA5D/RP24RA60/RP24RA8D

Date of Purchase		Warranty Period: 12 months from a date of purchase
Purchasing store		Purchase Price:
Telephone		Others:

Customer	Name	
	Address	
	Telephone	

About After-sales service

■ If there is malfunction or any problem, please stop its operation and contact with purchase store or our headquarter for after-sales service

■ Customer supporting center: 080-080-6066 (09:00-18:00: Business day)

■ Nextlink

Address: Chungangindus 2nd 701#, 144-5, Sang-daewon-dong, Chungwon-gu, Sungnam city, Kyunggi-do

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FCC Compliance Statement
FCC ID: W7LTD9J

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.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limitsset forth for an uncontrolled environment. This equipment is a handheld device and should be maintained with a minimum safety distance of 20cm from the antenna.
This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.