

## INTRODUCTION

SR24NP module is a highly- integrated, single-chip, 2.4G wireless transceiver. It is equipped with two antennas which can overcome the disadvantages of the single directional antenna as well as enhance signal stability and transmission distance. It also has two serial ports to connect with corresponding serial devices. it can be flexibly configured for RF front-end transmitter or receiver in the model aircraft system. Its transmitter power can be set from 0dB to 4.5dBm by software. the operation mode of the antenna with two transmitters and two receivers .

## SPECIFICATIONS:

Dimension: 20.5mm\*30.15mm\*0.8mm

Electrical Characteristics:

ITEM	TEST REQUIREMENT	REMARKS
Voltage supply	2.0—3.6V	DC
Center frequency	2400—2483.5MHz	Programmable
Frequency error	50KHz	
Modulation	DSSS-OQPSK	
Output power	0-4.5dBm	Programmable
Receiving sensitivity	-97dBm	@250Kbps data rate
Receiving current	29.6mA	
Transmitting current	39.6mA	Po=4.5dBm
Sleep consumption	0.4mA 1uA	Power Mode 1 Power Mode 3
Data rate	250kbps	typical
Transmit distance	100M	At open area
Antenna	SISO, Dipole Antenna	Gain:1dBi
Size	20.5*31.5mm	
Operation temperature	-30 to+85°C	Base on crystal performance

## OPERATIONS:

**STEP 1):** Connected to a 3.3V DC power supply

**STEP 2):** Connect to main control board through UART port.

**NOTICE:** It can be used as transmitter module as well as receiving module, realizing intercommunication.

**FCC STATEMENT:**

This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**RF EXPOSURE WARNING**

- This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter

operating conditions for satisfying RF exposure compliance.

#### **IC RADIATION EXPOSURE STATEMENT FOR CANADA**

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment.

Cet équipement respecte les limites d'exposition aux rayonnements IC déniées pour un environnement non contrôlé

#### **CE WARNING STATEMENT**

Wi-Fi function of this device is restricted only to indoor use when operating in the 5150-5250MHz frequency range.

#### **NCC WARNING STATEMENT**

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery. The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

#### **CUSTOMER SERVICE**

##### **Manufacturer:**

Yunee International (China) Co., Ltd.

##### **Production Address:**

East Zhengwei Road No.388, Jinxi Town, Kunshan City, Jiangsu Province

##### **Distributor:**

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