SR24+ User Manual

INTRODUCTION

Module Wireless Transceiver is a 2.4GHz wireless transceiver with high integration density.

This transceiver integrated one Zig-Bee CC2530 chipset and used the CC2592 as RF front end.

Its two antennas have greatly strengthened the signal's stability and transmission distance. It has two serial ports which can be connected to two serial devices. It allows a potential flexibility in model airplane area when acting as the radio frequency front end of transmitter and receiver. The output power of the module is 0-20 dBm.

SPECIFICATIONS

Dimension：22mm*35mm*5mm

Electrical Performance：

ITEM	TEST REQUIREMENT	REMARKS
Voltage supply	2.0－3.6V	DC
Center frequency	2405－2475MHz	Programmable
Frequency error	50KHz	
Modulation	O-QPSK	
Output power	0-20dBm	Programmable
Receiving sensitivity	-100dBm	
Receiving current	32mA	
Transmitting current	170mA	Po=20dBm
Sleep consumption	0.4mA 1uA	Power Mode 1 Power Mode 3
Data rate	250kbps	typical
Transmit distance	2200M	At open area
Antenna gain	1.5dBi	
Size	23.0*34mm	
Operation temperature	-30 to+85°C	Base on crystal performance

OPERATIONS

1. Connected to a 3.3V DC power supply.
2. Connect to main control board through UART port.
3. 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.
- Consult the dealer or an experienced radio/TV technician for help.

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.
—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.
The module’s FCC ID and IC ID are not visible when installed in the host, or If the host is marketed so that end users do not have straight forward commonly used methods for access to remove the module so that the FCC ID and IC ID of the module is visible; then an additional permanent label referring to the enclosed module: Contains Transmitter Module FCC ID: 2ACS5-SR24P; IC: 11554B-SR24P or Contains FCC ID: 2ACS5-SR24P; IC: 11554B-SR24P must be used.

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 définies pour un environnement non contrôlé

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

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