

RTS4001

BLE Bluetooth module

Technical specification

Version1.1

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Version

Version	Major changes	Dates	Author
V1.0	The initial release	2017/4/11	zhaihaixin
V1.1	Update the hardware test parameters	2017/5/11	zhaihaixin

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1 Introduction

- RTS4001 Bluetooth module, compliant with Bluetooth specification v4.1
- Compatible with Android™4.3 and above, IOS7.0 and above
- Embedded firmware in RTS4001 Bluetooth module
- The customer can set the device name, Custom UUID and other parameters
- Quick Connection, easy operation, simple control

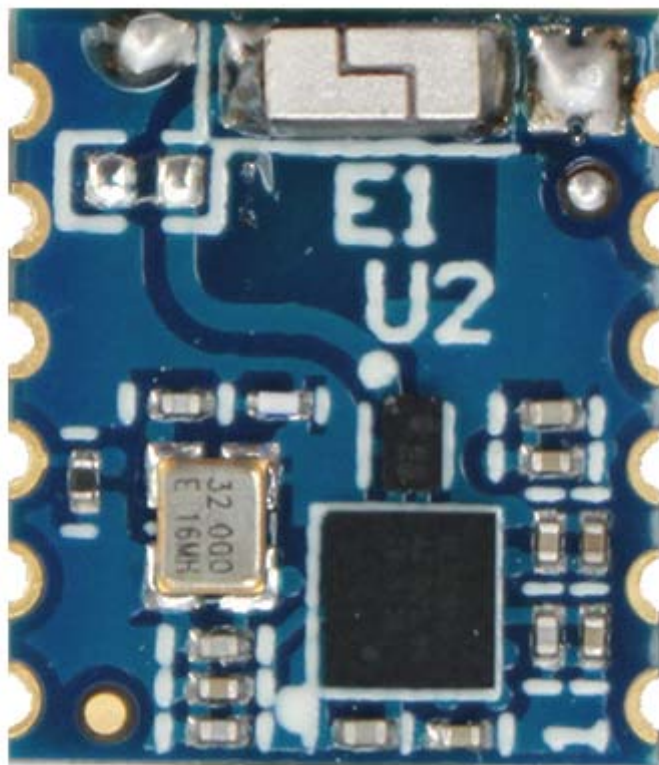


Figure 1-1 RTS4001 Module

2 Technical indicators

- Working frequency: ISM spectrum 2.400GHz to 2.483GHz
- Bluetooth specification v4.1 compliant master and slave
- Protocol Stack: LL, SM, L2CAP, ATT, GAP, GATT
- Programming interface: Proprietary application controller interface
- Communication interface: SPI
- Working voltage: 1.7V to 3.6V
- Transmission power: Up to +8dBm
- Power consumption: Down to 4 μ A current consumption with active BLE stack
- Communication distance: Up to 10m
- Working temperature: -20°C to +75°C
- Storage temperature: -40°C to +85°C
- Antenna specification: Ceramic antenna
- Module size: 11.5mm *10mm*0.8mm

3 PIN

3.1 Pin Figure

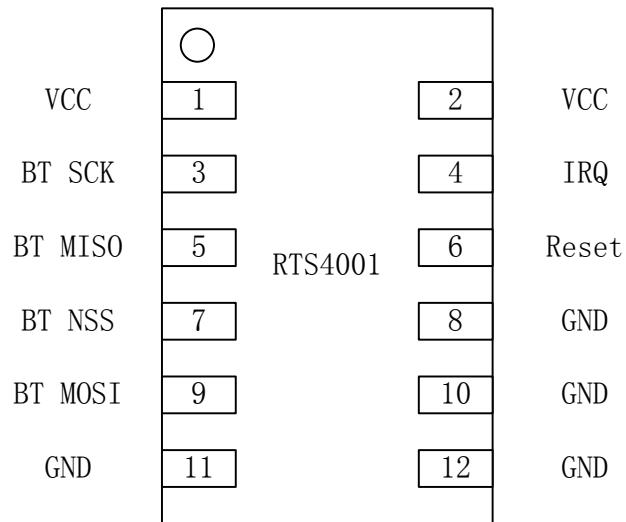


Figure 3-1 RTS4001 module package

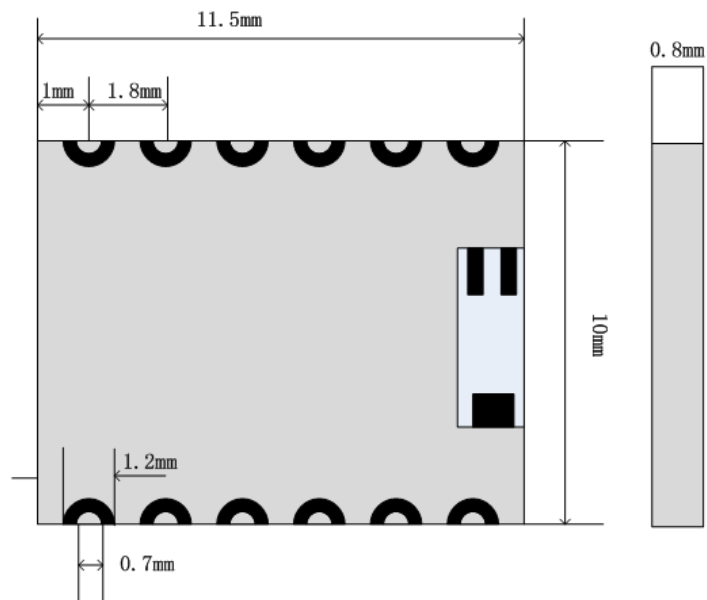


Figure 3-2 RTS4001 outline dimension

3.2 Pin Description

Table 3-1 RTS4001 Pin Description

Pin number	Pin name	I/O type	Description
1	VCC	Power	3.3V
2	VCC	Power	3.3V
3	BT SCK	I	SPI Clock
4	IRQ	O	Interrupt request
5	BT MISO	O	SPI data output
6	Rest	I	Reset
7	BT NSS	I	SPI Selection
8	GND	-	ground
9	BT MOSI	I	SPI data input
10	GND	-	ground
11	GND	-	ground
12	GND	-	ground

4 Typical applications

- Bluetooth reader.
- Bluetooth remote door lock.
- Smart wearable devices.
- Bluetooth electronic scale, Glucose meter.
- Bluetooth mouse, Keyboard, Operation rod and other consumer electronic devices.