

RTS4102

Communication module

Technical specification

Version 1.0

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Version

Version	Major changes	Date	Author
V1.0	The initial release	2018/6/6	Sunjinkai

Directory

Contact us	2
Version	3
Directory	4
1 Introduction	5
2 Technical indicators	6
3 PIN.....	7
3.1 Pin Figure	7
3.2 Pin Description	8
4 Typical applications	9

Figure directory

Figure 1-1 RTS4102 Real Figure	5
Figure 3-1 RTS4102 Pin Figure	7
Figure 3-2 RTS4102 Size Chart	7

The table directory

Table 3-1 RTS4102 Pin Description	8
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1 Introduction

- RTS4102 Communication module, Supports LoRa pass through function
- Provides LoRa functional library, Reduce application development difficulty
- Low power consumption, Low cost, Easy integration



Figure 1-1 RTS4102 Real Figure

2 Technical indicators

- Working frequency: 470Mhz ~ 510Mhz
- Programming interface: API
- Communication interface: SPI
- Working voltage: 1.8V ~ 3.4V
- Transmission power: +14dBm (Max.)
- The power consumption of the current: Sleep current<1uA, Receive current<12mA, Transmit current<25mA
- The communication distance: ≈1KM (Spring antenna、Urban road)
- The communication rate: 0.018kbps ~ 37.5kbps
- The sensitivity: -148dBm
- Working temperature: -20℃ ~ +70℃
- Storage temperature: -40℃ ~ +80℃
- Antenna specification: Spring antenna
- Module size: 17mm *16mm*2.5mm

3 PIN

3.1 Pin Figure

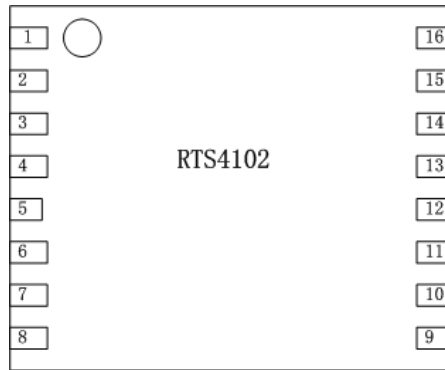


Figure 3-1 RTS4102 Pin Figure

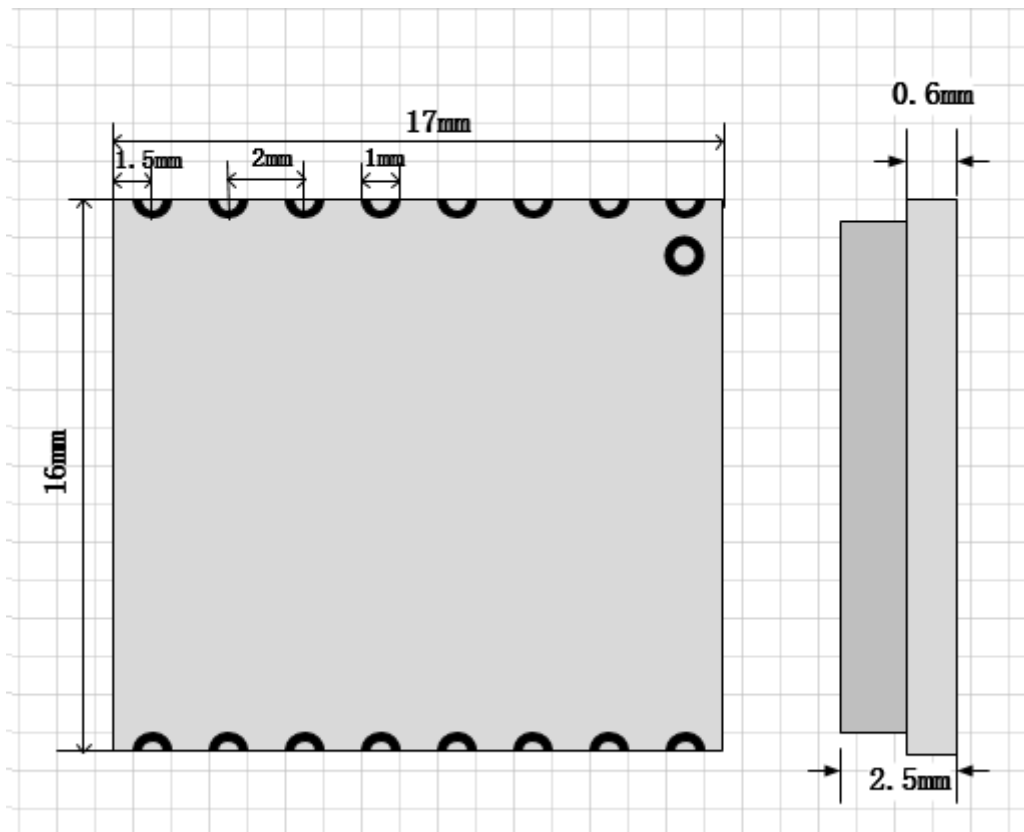


Figure 3-2 RTS4102 Size Chart

3.2 Pin Description

Table 3-1 RTS4102 Pin Description

Pin number	Pin name	I/O Type	Description
1	ANT	-	ANT
2	GND	-	Ground
3	VDD	Power	1.8-3.4V
4	RESET	I	Module Reset
5	DIO0	O	Digital pins
6	DIO1	I/O	Digital pins
7	DIO2	I/O	Digital pins
8	DIO3	I/O	Digital pins
9	GND	-	Ground
10	DIO4	I/O	Digital pins
11	DIO5	I/O	Digital pins
12	SCK	I	SPI Clock
13	MISO	O	SPI data output
14	MOSI	I	SPI data input
15	NSS	I	Chip Selection
16	GND	-	Ground

4 Typical applications

- Smart meters
- Wisdom city
- Pet tracker
- Smoke alarms
- Gas monitor