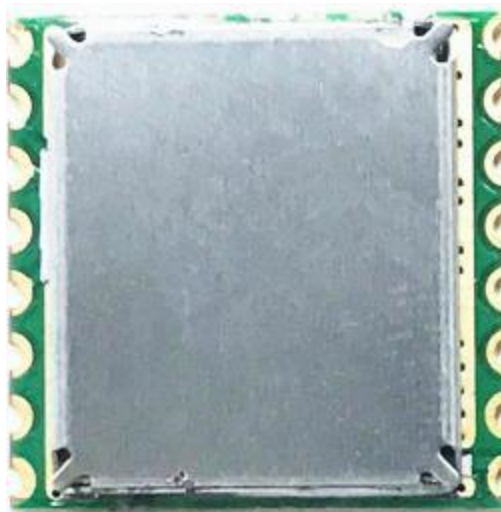


SX1268S4S+T Series wireless modules

Instructions for use



(Subject to the actual product\module can be customized)

Overview

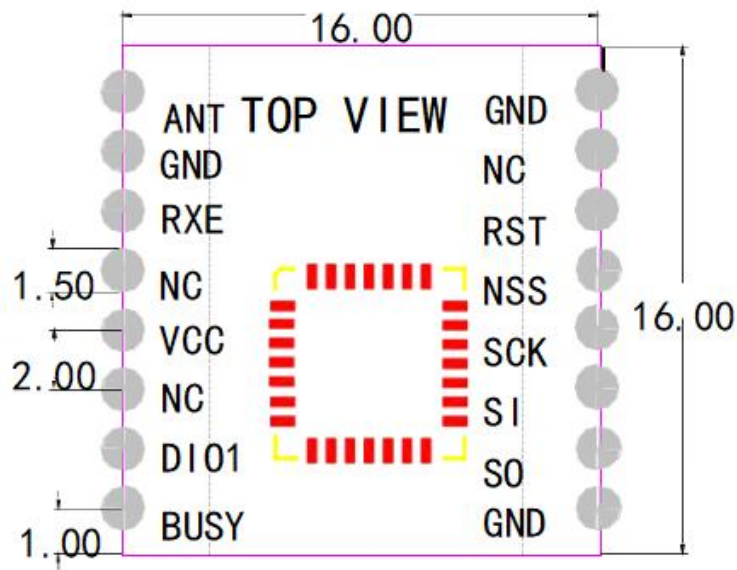
SX1268SXS+T The series of wireless modules is a radio frequency module based on the SEMTECH radio frequency integrated chip SX126X. It is a high-performance Internet of Things wireless transceiver that uses LoRa (Long Range) Spread Spectrum Technology , in the same urban and industrial application environment, the performance is better than that of radio frequency products working using traditional modulation methods (FSK, 2-FSK, 4-FSK, GFSK, PSK, ASK, OOK, etc.) , in harsh noise environments (electricity meters Near strong interference sources such as in the middle and near motors, in elevator shafts, mines, basements, etc. Shielded environment) has particularly obvious advantages, which greatly increases the communication distance and can be widely used in long-distance IoT wireless in various occasions. communication field. It has the characteristics of small size, low power consumption, long transmission distance, and strong anti-interference ability. The module integrates all RF phases Related functions and devices have been professionally designed and rigorously tested to facilitate customers' wireless solutions and IoT Used in product design and development .

Basic Features

- 2 FSK/GFSK Technology, LoRa (long range) spread spectrum technology
- Frequency range: 433MHZ
- Super anti-interference, in LoRa mode, the common channel suppression is 19 dB
- High receiving sensitivity-148dbm. (32M Passive 10 ppm crystal)
- Programmable bit rate, the bit rate of LoRa and FSK modulation are up to 62.5 kbps and 30 0 kbps
- Interface form: SPI
- Multiple frequencies are optional, and multiple transmission rates are available. FDMA and applications in frequency modulation technology.

- Intelligent reset, low voltage monitoring, scheduled wake-up, low power consumption mode , sleep mode
- Low power consumption receiving current: 4.6 mA low R current
- Sleep current: 0.2 uA @ SLEEP , 1.5 uA @ IDLE
- FIFO space 64Bytes , 256 Bit FIFO TX/RX, FIFO/direct mode (recommended FIFO package mode)
- RSSI Channel detection function
- Configuration: AFC/wake-up-on-air function/low power consumption/carrier sense/FEC Error Correction/AEC encryption
- Working temperature range: Working temperature (°C): -40 ~ +85
- Module size: 16*16*2mm

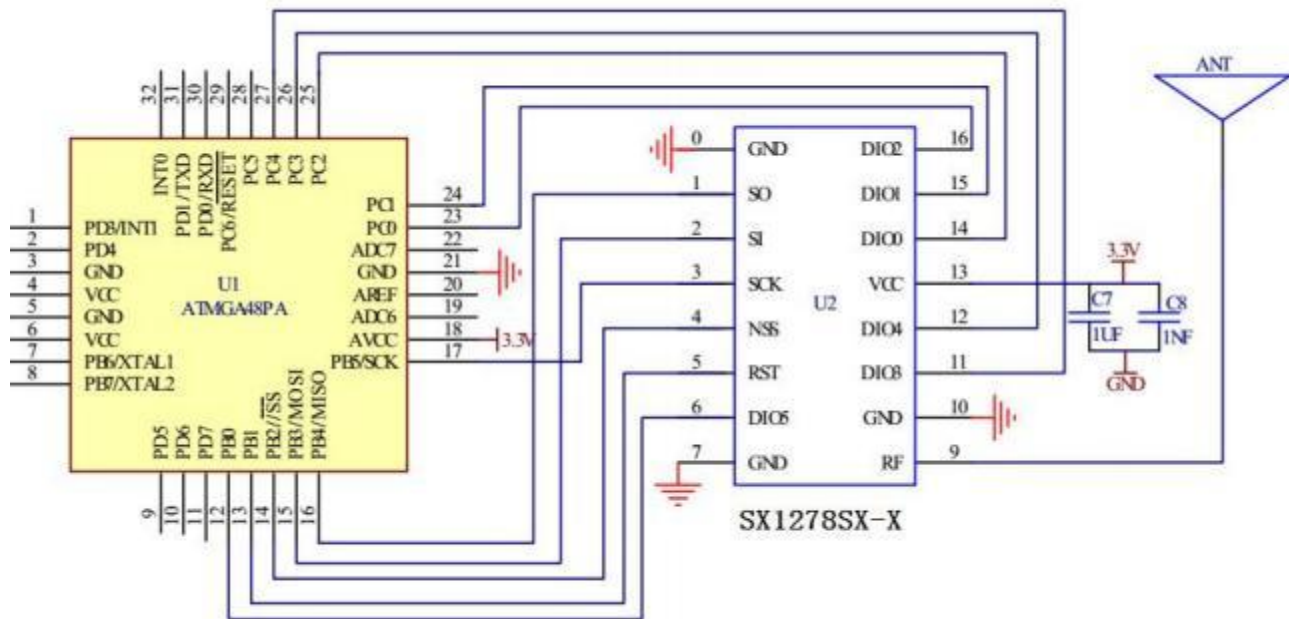
Interface Description



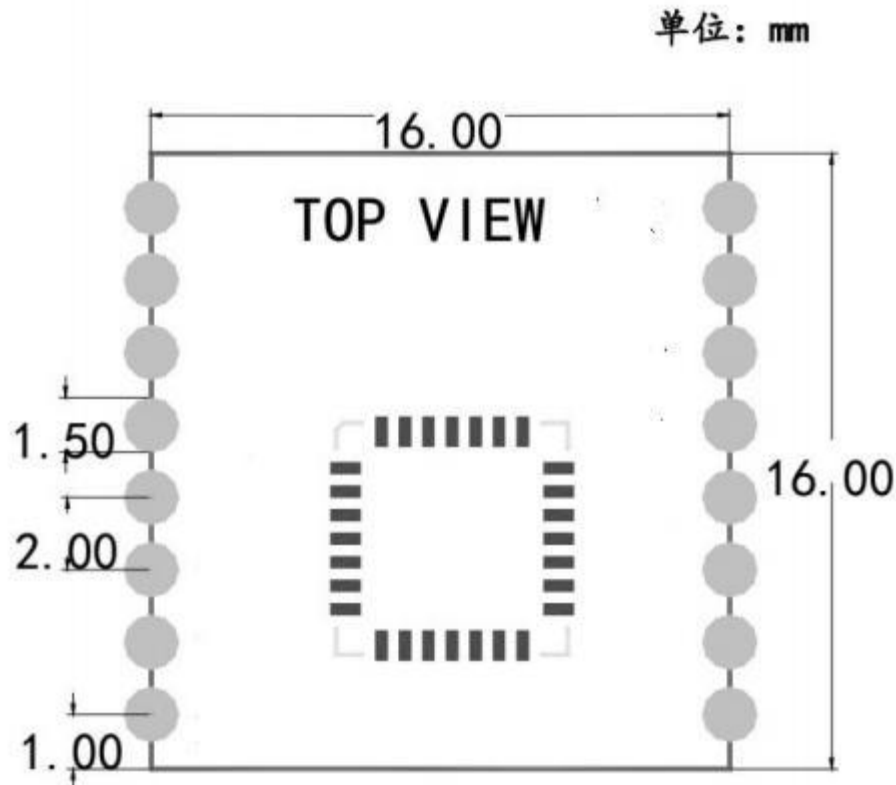
Pin definition

serial number	name	type	Function
1	GND	-	Negative ground of power supply
2	SO	I	SPI interface MISO data output
3	SI	O	SPI interface MOSI data input
4	SCK	I	SPI interface SCLK clock input
5	NSS	I	SPI interface NSS Select input
6	RESET	I	reset pin
7	NC	I	hanging in the air
8	GND	-	Negative ground of power supply
9	ANT	I/O	RF Signal input / output, connect 50Ω antenna
10	GND	-	Negative ground of power supply
11	RXE	I/O	When transmitting, set the high level; otherwise, set the high level low
12	NC	I/O	hanging in the air
13	VCC	-	Positive pole of power supply 1.8 ~ 3.7V
14	NC	I/O	hanging in the air
15	DIO1	I/O	direct chip DIO 1 number I/O pins, software settings
16	BUSY	I/O	direct chip DIO 2 number I/O pins, software settings

Circuit connection instructions



Dimensions description



Model Ordering Symbol

SX1268S43S+T-X1 patch 433 MHZ With shield

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