

Bluetooth Module

■ ■ ■ USR-BLE100

Low power bluetooth module

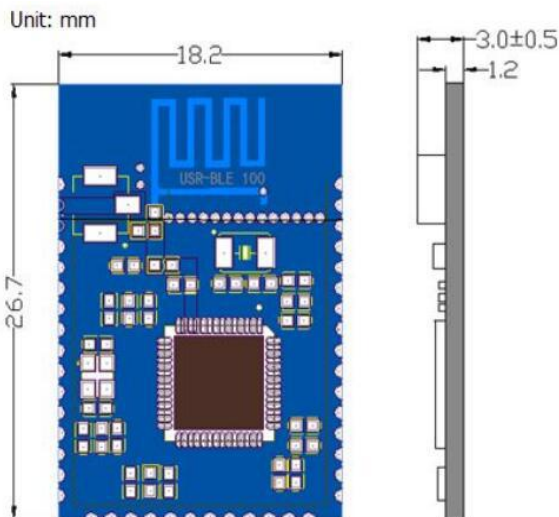
USR-BLE100 is an ultra-low power V4.1 bluetooth module. It is used for point-to-point data transparent transmission.

User device can communicate immediately after simple setup without concerning about transport protocol.

The module supports master and slave mode. User not only can use both master and slave for transparent transmission, also can develop APP on the basis of standard BLE protocol. The module supports one-to-many broadcast, and has built-in iBeacon protocol. User can make it an iBeacon equipment with simple setup.

■ ■ ■ UART to bluetooth

- Support standard BLE protocol
- Low power broadcast mode of 1.3uA, sleep mode of 150nA, a variety of wake-up methods
- Master and slave mode, quick switch
- Setup methods: serial AT command, transparent transmission AT command
- One-to-many data broadcast, built-in iBeacon protocol
- Mesh networking mode to realize bluetooth self-organized network
- 1.9V~5.5V single supply
- UART Interface



Specifications	
Bluetooth	
Wireless Standard	802.15.1
Frequency Range	2.402GHz-2.480GHz
Transmit Power	-18dBm to +3dBm User can configure the power
Receiving Sensitivity	-89dBm
Hardware Parameter	
Data Interface	UART: 2400bps - 115200bps
Working Voltage	1.9V~5.5V
Working Current	60nA~12mA
Working Temp	-40°C~85°C
Storage Temp	-40°C~125°C
Dimension	18.2×26.7×3(mm)
Antenna Selection	External: I-PEX connector Internal: on-board antenna
Software Parameter	
Device Type	Master device Slave device
Security Mechanism	128 bit AES engine
Working Mode	Master device Slave device Broadcast mode
Encryption	PC1 encryption
Setting Command	AT+ command structure
User Configuration	Serial AT command Transparent transmission AT command
Application Software	Support customization

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