

BLUETOOTH RFID READER B6018



B6018 is a high-performance adsorption type UHF RFID reader/writer product designed with our company's developed ultra-high frequency F90A1 reader/writer module, which has stable and reliable performance and a reading distance of up to 3 meters. Embedded with a new generation of high-performance ARM-COTEXM3 processor, the product has powerful functions and can be equipped with master-slave mode and automatic mode. It has high scalability and can meet the needs of more customers.

The B6018 charging interface adopts a dual interface design of Micro USB and Type-C, which is convenient for customers to use in different scenarios. Bluetooth adopts a 5.0 design, complies with FCC, CE, RoHS standards, has a wide coverage range, and high communication speed. B6018 adopts a plastic shell, with a simple and beautiful appearance, compact and lightweight, and sturdy and durable. The adsorption installation method is suitable for the fast application needs of different mobile phones.

Product advantages

- The receiving sensitivity can reach -62dBm, with high performance;
- Excellent low-power performance;
- Provide a comprehensive software development kit (SDK) and interface that is easy to integrate with RFID software;
- Adopting integrated RF chips, the module performance is stable;
- Using carrier cancellation technology, the accuracy and range of tag reading are good;
- Enhanced noise suppression function for reliable data capture;
- Good anti-interference performance;
- Designed with a plastic casing, it has a compact, lightweight, sturdy, and durable appearance;
- The USB interface supports data communication and can be used as a card issuer;
- Micro USB and Type-C dual interface design;
- Bluetooth 5.0, with wide coverage and high communication speed;
- Adsorption installation, convenient and fast;
- Integrated battery charging and discharging management module to ensure safe use of the battery.

Product Technical Parameters

NO	Name	Parameters
1	Dimension	138*70*15mm
2	appearance design	Plastic shell design
3	buzzer	Active buzzer, software configurable
4	communication interface	Micro-USB\type-C
5	Antenna type	Circularly polarized ceramic directional antenna
6	Working temperature detection	Support
7	Interface communication speed	115200bps
8	Write distance	0-1m (depending on tag type, transmission power, and application environment)
9	Read distance	0-3m (depending on tag type, transmission power, and application environment)
10	RF port standing wave	≤1.5
11	receiver sensitivity	-62dBm
12	Output power flatness	±0.2dBm
13	output power	Software adjustable, step interval 1.0dB,+20dBm~+30dBm
14	Support work area	China 1, China 2 US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 with & without LBT regulations Japan Korea Malaysia Taiwan
15	Working frequency	840 ~ 960 MHz
16	Tag Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
17	storage temperature	-30 ~ +70°C
18	Working humidity	≤95% (+25°C)
19	operation temperature	0 ~ +65°C
20	Power supply mode	Built in polymer lithium battery, charging via USB interface
21	Battery capacity	2800mAh/3.7V
22	working hours	8 hours/balanced mode
23	Bluetooth Module	Bluetooth 5.0, compliant with FCC, CE, RoHS standards

Interface Function Description

Name	Description
Power on/off button	Short press the (50-2000ms) button to turn on the device
	Press the button twice in a row within 1 second to shut down the device
Power indicator light	Green light flashing, device in charging module or low battery mode
	Green light constant, the device is in full charge or normal discharge mode
optional feature	The blue light is constantly on, indicating a successful Bluetooth connection
Reading indicator light	Green light flashing, indicating reading of tag data
battery indicator	The battery level is from high to low, and the indicator lights are green, yellow, orange, and red in sequence
USB interface	Maximum support for 5V/2A fast charging function
	USB virtual serial port, supports configuring device parameters through a computer, Equipped with desktop card dispenser function