

## SF-BTHFRD USER MANUAL

### GENERAL DESCRIPTION

SF-BTHFRD is a high performance and portable Multi-Protocol HF tag reader supporting ISO15693, ISO14443TypeA/TypeB. It is designed supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as stock management, traceability system, personnel identification, access control and anti-counterfeit system.

### FEATURES

- Fashion, thin and well portable design;
- Support Bluetooth 4.0 wireless communication;
- Ultra-low power design;
- Support interactive and trigger-activating work mode;
- Support mainstream ISO15693, ISO14443TypeA/ Type B protocol tag;
- Advanced anti-collision algorithm;
- Built-in TX/RX antenna with up to 100mm effective distance\*;
- 3 groups LED as working indicator;

### CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Input Voltage	VCC	6	V
Operating Temp.	T <sub>OPR</sub>	-10~+70	°C
Storage Temp.	T <sub>STR</sub>	-20~+85	°C

- Electrical Specification



\*

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Input Voltage	VCC	4.2	5	5.5	V
Input Current	I <sub>BAT</sub>		500		mA
Standby Current	I <sub>STBY</sub>		2	3	mA
Continuous RF Current	I <sub>RF</sub>		80	100	mA
Frequency	F <sub>REQ</sub>		13.56		MHz
Effective Distance*	DIS	0	80	100	mm
Size	L×W×H		110 × 50 × 5.8		mm

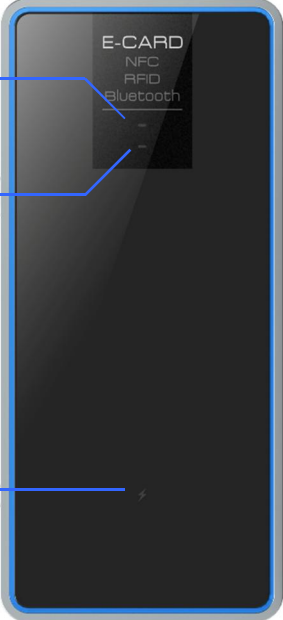
\*Effective distance depends on antenna, tag and working environment.

## INTERFACE

### 1. Socket

	
<div style="display: flex; justify-content: space-around;"> <span>↑ Trigger Button</span> <span>↑ Power Switch</span> </div>	
Item	Description
Trigger Button	Single activate the reader to read 15693 or 14443A tag's UID and send to host
Power Switch	Set left for power on and right for power off
	
<span>↑ Micro USB</span>	
Item	Description
Micro USB	Power Supply

### 2. Panel Indicator

	
LED1	—
LED2	—
LED3	—
Item	Description
LED1	Red on during trigger-activating. Green flash when successfully reading a tag.
LED2	Red flash slowly shows the reader is power on.
LED3	

## Disposal:

For indoor use only. The apparatus shall not be exposed to dripping or splashing.

No user replaceable parts inside, refer servicing to manufacturer specified agency or qualified service personnel.

Only use accessories/battery specified by the manufacturer.

Do not expose to excessive heat sources, sunshine, fire or the like



All electrical and electronic products including batteries should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

## FCC Notice:

FCC ID: XNO-SF-BTHFRD

Model: SF-BTHFRD

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The RF Exposure Compliance distance is 20mm.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.