Portable UHF RFID Bluetooth Reader

Model: CF-RU5107

Size: 110mm×50mm×5.8mm

GENERAL DESCRIPTION

CF-RU5107 is a high performance and portable ISO18000-6C (EPC C1G2) Protocol UHF tag reader. It is designed upon fully self-intellectual property and 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;
- Ultra low power design, over 3 hours continuous reading tag and over 1 day in standby;
- Support interactive and trigger-activating work mode;
- Support ISO18000-6C (EPC C1G2) protocol tag;
- 902~928MHz or 865~868MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- Built-in TX/RX antenna with up to 1000mm effective distance*;
- RF output power from 0 to 26dbm (adjustable) with RSSI supported;
- Multiple tag anti-collision>50pcs/s, multiple tag inventory speed>50pcs/s;
- Tag buffer size: 370PCS@Max.128bitsEPC or 120PCS@Max.496bitsEPC;
- Support Bluetooth 4.0. Built-in lithium battery and no external power supply needed;
- USB1.1 interface. Provide DLL and demonstration software to facilitate development;
- Support USB charging and also the charging indicator, the low battery indicator;

CHARACTERISTICS

- **Absolute Maximum Rating**

ITEM	SYMBOL	VALUE	UNIT
Charging Voltage	VCC	6	V
Operating Temp.	T_{OPR}	-10~+70	℃
Storage Temp.	T_{STR}	-20~+85	℃

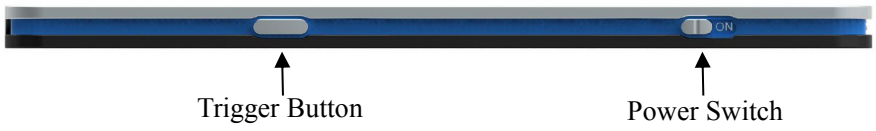
- **Electrical Specification**

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Charging Voltage	VCC	4.2	5	5.5	V
Charging Current	I_{BAT}		500		mA
Standby Current	I_{STBY}		14	20	mA
Continuous RF Current	I_{RF}		100	200	mA
Frequency	F_{REQ}	902		928	MHz
Effective Distance*	DIS	0	70	100	mm
Size	L×W×H		110 × 50 × 5.8		mm

** Effective distance depends on tag and working environment.*

INTERFACE

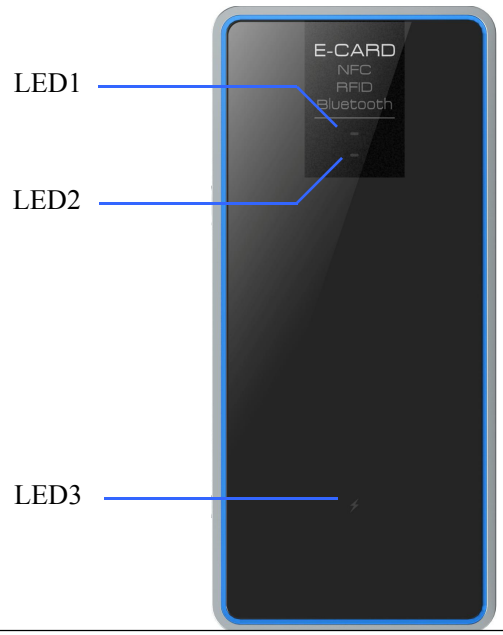
1. Socket



Item	Description
Trigger Button	Activate the reader to read tag's UID and send to host
Power Switch	Set left for power on and right for power off

Item	Description
Micro USB	Battery charging and USB virtual COM port

2. Panel Indicator



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	Red on means low battery. Green on during battery charging.

Remark:

1. Specifications are subject to change, please pay attention to our latest version.

2. Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.