

USB UHF Desktop Reader



Model: RRU3009USB-L

Size: 140.8 x 69.5 x 12.1mm



GENERAL DESCRIPTION

The RRU3009USB-L is a UHF (Ultra-High Frequency) desktop RFID reader for electronic tags, designed with fully independent intellectual property rights and incorporating proprietary efficient signal processing algorithms. While maintaining a high read rate, it enables rapid reading and writing of electronic tags, making it widely applicable to various RFID systems including retail, item management, logistics, anti-counterfeiting systems, and production process control.

FEATURES

- Self-intellectual property;
- Support ISO18000-6C(EPC C1G2) protocol tag;
- 902~928MHz or 865~868MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- Low power consumption design, powered by USB;
- Support RSSI;
- RF output power up to 23dbm(adjustable);
- Equipped with an internal ceramic antenna, achieving a reading distance of up to 80CM* (with E41 tags);
- Supports USB 2.0 interface;
- High stability, featuring air-cooled heat dissipation, eliminating the need for external heat sinks;
- Capable of continuous operation for 24 hours a day, 365 days a year;
- Supports online Firmware upgrades.

CHARACTERISTICS

Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp	T _{OPR}	-20 ~ +60	$^{\circ}\!$
Storage Temp	T _{STR}	-20 ~ +70	$^{\circ}\! \mathbb{C}$

^{*}Effective distance varies with tags and the working environment.

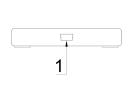


Electrical and Mechanical Specification

Under TA=25°C, VCC=+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC		5		V
Operating Current	Ic	110	20 (standby)	310	mA
Operating Frequency	F_REQ	-	865~868(ETSI) 902~928(FCC)	-	MHz
RF Output Power	P_RF	5		23	dBm
Receiver Sensitivity	SR		-69		dBm

INTERFACE



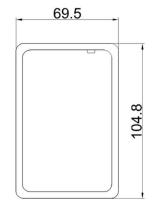


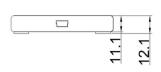
1. USB

2.LED

NO.	SYMBOL	DESCRIPTION
1	PWR	Upon powering on, the indicator light remains solid (red).
2	WORK	Upon powering on, the light flashes once and then turns off; the light flashes (green) when a card is read.

MECHANICAL DATA (UNIT:mm)





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.

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