

# USB UHF Desktop Reader



**Model: RRU1612DK-K9U**

**Size: 160mmx120mmx17mm**

## GENERAL DESCRIPTION

RRU1612DK-K9U is a high-performance, cost-effective UHF USB desktop reader/writer. Designed with fully independent intellectual property rights and proprietary efficient signal processing algorithms, these platforms maintain a high tag reading rate while enabling fast read/write processing of RFID tags. They can be widely used in various RFID systems such as retail, asset management, logistics, anti-counterfeiting, and production process control.

## FEATURES

- Self-intellectual property;
- Support ISO18000-6C(EPC C1G2) protocol tag;
- 865~868MHz/902~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF Output power up to 26dBm (adjustable);
- Built-in antenna, typical reading effective distance <80cm\*;
- Tag buffer size up to 330PCS@128bits EPC or 100PCS@496bits EPC;
- Supports USB 2.0 interface (virtual COM port mode and emulation keyboard mode), optional Bluetooth support;
- Low power dissipation with USB power supply, Support RSSI;;
- Provide DLL and Demonstration Software Source code to facilitate further development.
- Supports firmware upgrades.

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

## CHARACTERISTICS

### ● Absolute Maximum Ratings

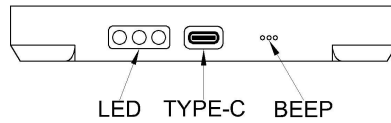
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp	T <sub>OPR</sub>	-20 ~ +60	°C
Storage Temp	T <sub>STR</sub>	-20 ~ +70	°C

### ● Electrical and Mechanical Specification

Under TA=25°C,VCC=+5V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC		5		V
Current Dissipation	I <sub>c</sub>			50 (26dBm)	mA
Frequency	F <sub>REQ</sub>	-	865~868 (ETSI) 902~928 (FCC)	-	MHz
RF Output Power	P <sub>RF</sub>	5		26	dBm
Receive Sensitivity	SR		-70		dBm

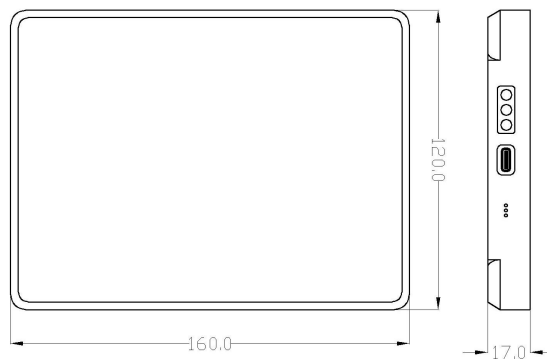
## INTERFACE



ITEM	SYMBOL	DESCRIPTION	REMARK
Bluetooth LED	BT	The indicator light stays on when Bluetooth is successfully connected.	BLUE
Operation LED	WORK	On power-up, the indicator flashes once, then turns off; The indicator flashes when communicating via Type-C or Bluetooth.	GREEN
Power LED	PWR	The indicator stays on after power-up.	RED
USB	TYPE-C	Type-C USB2.0	
BUZZER	BEEP	On power-up, the buzzer sounds once, then remain silent. The buzzer beeps when a tag is scanned.	

*Depending on the model and configuration, the power supply, communication, and indicator lights on the device may vary slightly. Please refer to the actual product for details.*

## MECHANICAL DATA (UNIT:mm)



## ACCESSORY



**Type-C USB 2.0 cable \* 1 piece**

*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.