

UHF Desktop Reader



Model: RRU3009DK

Size: 160 x 110 x 39 mm

GENERAL DESCRIPTION

The RRU3009DK is a UHF RFID desktop reader designed with completely independent intellectual property. It incorporates a proprietary efficient signal processing algorithm to achieve high reading accuracy and fast reading and writing of RFID tags. It can be widely used in various RFID systems for 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, powered by +9V to +12V;
- Support RSSI;
- RF output power up to 23dbm(adjustable);
- Built-in ceramic RFID antenna with a reading range up to 80 cm (E41 tag).
- Support RS232 communication interface;
- High stability, air-cooled heat dissipation, no external heat sink required;
- Capable of continuous operation for 24 hours a day, 365 days a year;
- Supports online Firmware upgrades.

**Effective distance varies with tags and the working environment.*

CHARACTERISTICS

● Absolute Maximum Ratings

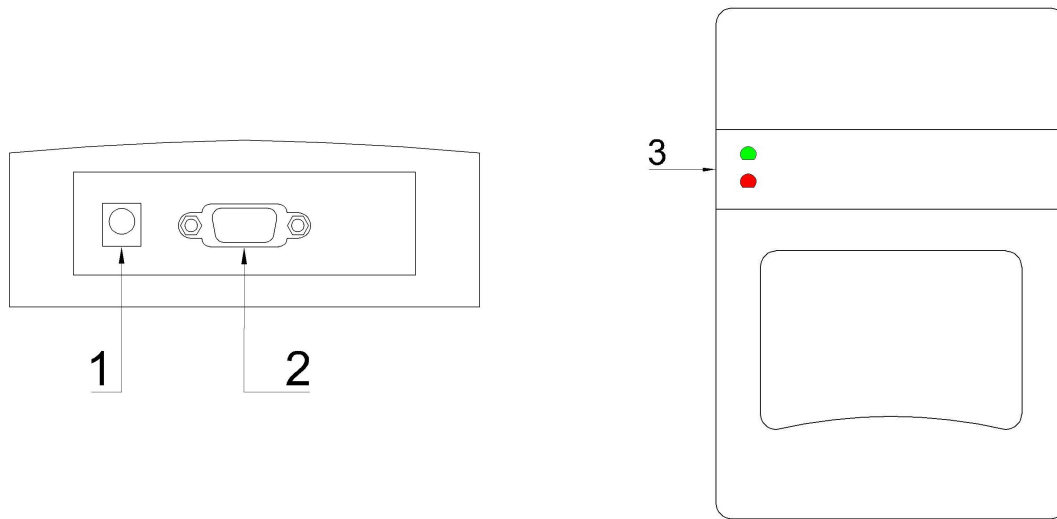
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	14	V
Operating Temp	T _{OPR}	-20 ~ +60	°C
Storage Temp	T _{STR}	-20 ~ +70	°C

● Electrical and Mechanical Specification

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

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	9		12	V
Operating Current	I _C	130	50 (standby)	400	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. Power Interface (DC JACK)

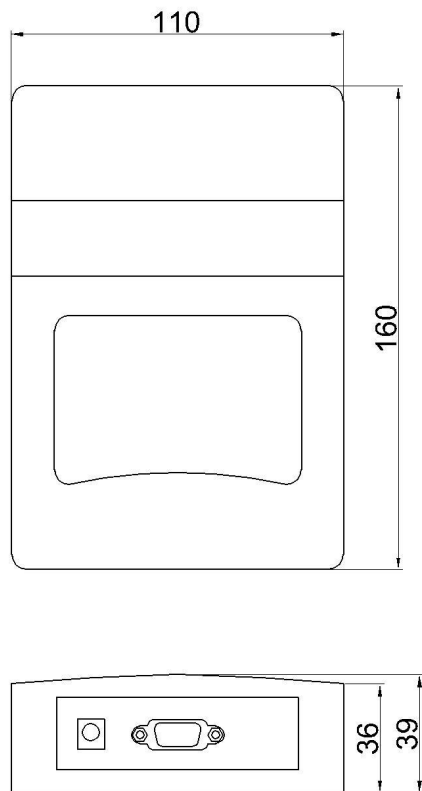
NO.	SYMBOL	DESCRIPTION
Central	PWR	Power
Outer	GND	Ground

2. Serial Communication Interface(DB9 Female)

NO.	SYMBOL	DESCRIPTION
1	NC	Reserved
2	TXD	Serial communication data output
3	RXD	Serial communication data input
4	NC	Reserved
5	GND	Signal ground
6-9	NC	Reserved

3.LED

NO.	SYMBOL	DESCRIPTION
1	PWR	Solid red when powered on
1	WORK	Flashes once when powered on, then off; flashes when a card is read (green)

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.