

RJ45 UHF Desktop Reader



Model: RRU3009DK

Size: 160 x 110 x 39 mm

GENERAL DESCRIPTION

The RRU3009DKIP 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 & RJ45(TCP/IP) communication interfaces;
- 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

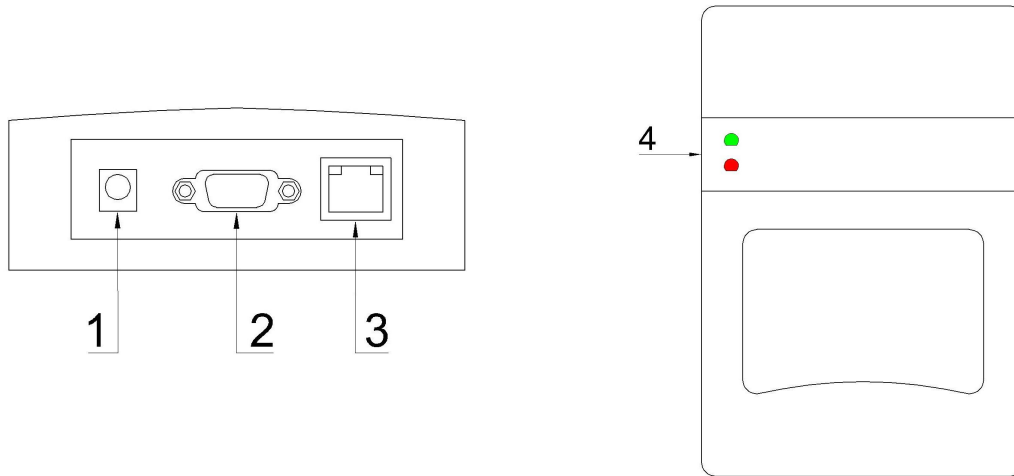
| ITEM | SYMBOL | VALUE | UNIT |
|----------------|------------------|-----------|------|
| Power Supply | VCC | 14 | V |
| Operating Temp | T _{OPR} | -20 ~ +60 | °C |
| Storage Temp | T _{STR} | -20 ~ +70 | °C |

● 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 | 200 | 120 (standby) | 470 | 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 |

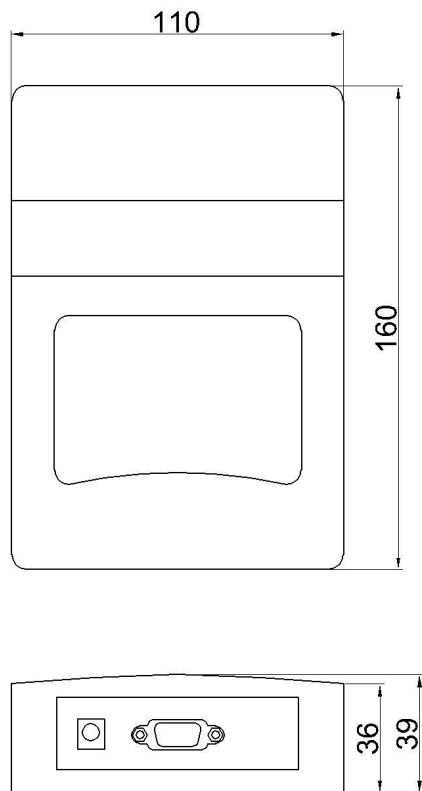
2. Serial Communication Interface(DB9 Female)

| 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.TCPIP(RJ45)

4.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.