

## UHF Desktop Reader U816 RS232



Model : SID-RDT-U816-SR

Size : 123x94x29 mm

Weight : 144g

## GENERAL DESCRIPTION

SID-RDT-U816-SR is a high performance UHF Desktop Reader. It is designed upon fully self-intellectual property. Based on proprietary efficient digital signal processing algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, attendance system, anti-counterfeit and industrial production process control system.

## FEATURES

- Self-intellectual property;
- Support ISO18000-6C (EPC C1G2) protocol tag;
- 902~925 MHz frequency band (frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 26dbm(adjustable);
- Built-in wideband antenna with effect distance up to 1000mm\*;
- Support auto-running and interactive work mode;
- Low power dissipation with single +9V DC power supply;
- Support RS232 and Wiegand interface;
- Output format and parameters configurable;
- Provide SDK and demo software to facilitate further development.

*\* Effective distance depends on protocol, tag and environment.*

## INTERFACE



| DB9 Male |        |               |
|----------|--------|---------------|
| Pin      | Symbol | Comment       |
| 1        | NC     | Reserved      |
| 2        | TXD    | TXD of RS232  |
| 3        | RXD    | RXD of RS232  |
| 4        | NC     | Reserved      |
| 5        | GND    | GND           |
| 6        | WD0    | Wiegand data0 |
| 7        | NC     | Reserved      |
| 8        | WD1    | Wiegand data1 |
| 9        | GND    | GND           |

## CHARACTERISTICS

- Absolute Maximum Rating

| ITEM            | SYMBOL           | VALUE   | UNIT |
|-----------------|------------------|---------|------|
| Power Supply    | VCC              | 16      | V    |
| Operating Temp. | T <sub>OPR</sub> | -10~+60 | °C   |
| Storage Temp.   | T <sub>STR</sub> | -25~+80 | °C   |

- Electrical and Mechanical Specification  
Under T<sub>A</sub>=25°C, VCC=+9V unless specified

| ITEM                | SYMBOL           | MIN | TYP | MAX  | UNIT |
|---------------------|------------------|-----|-----|------|------|
| Power Supply        | VCC              | 8   | 9   | 15   | V    |
| Current Dissipation | I <sub>C</sub>   |     | 400 | 600  | mA   |
| Frequency           | F <sub>REQ</sub> | 920 |     | 925  | MHz  |
| Effective Distance* | Dis              | 0   | 500 | 1000 | mm   |

\* Effective distance depends on protocol, tag and environment.

Remark:

- Specifications are subject to change, please pay attention to our latest one.
- Smart Identify Co., Ltd. reserves the right to the final interpretation of the above terms.