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# UHF High Performance Integrated Reader

**SID-U861-12dbi**


UHF Reader

Model : SID-U861-12dbi

Size : 450mmx450mmx70mm

Weight : 3000g

Smart identify Ltd.
594/9 Hathairat Road, Bangchan Klongsamwa, Bangkok 10510 Thailand
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# UHF High Performance Integrated Reader

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## General Description

SID-U861-12dbi UHF High Performance Integrated Reader 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, and anti-counterfeit and industrial production process control system.

## Features

- Self-intellectual property;
- 860~868MHz, 902~928MHz frequency band (frequency customization optional);
- Based on R2000 design, excellent multi-tag anti-collision operation, fully support EPC CLASS1 G2 protocol tag;
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 12dbi antenna optional with effect reading distance up to 20~25m *;
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand with optional TCP/IP interface;
- Provide DLL and Demonstration Software Source code to facilitate further development.

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

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## CHARACTERISTICS

- Absolute Maximum Rating

| ITEM | SYMBOL | VALUE | UNIT |
|---|---|---|---|
| Power Supply | VCC | 16 | V |
| Operating Temp. | $T_{OPR}$ | -10~+60 | ℃ |
| Storage Temp. | $T_{STR}$ | -25~+80 | ℃ |

- Electrical and Mechanical Specification
  Under $T_A$＝25℃, VCC＝+9V unless specified

| ITEM | SYMBOL | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| Power Supply | VCC | 8 | 9 | 12 | V |
| Current Dissipation | $I_C$ | | 350 | 650 | mA |
| Frequency | $F_{REQ}$ | 860 | 860~868<br>902~928 | 928 | MHz |
| Effective Distance* | DIS | 20 | 25 | | m |

** Effective distance depends on antenna, tag and environme*

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## INTERFACE

| ITEM | COMMENT |
|---|---|
| Red | +9V |
| Black | GND |
| Yellow | Wiegand DATA0 |
| Blue | Wiegand DATA1 |
| Purple | RS485 R+ |
| Orange | RS485 R- |
| Brown | GND |
| White | RS232 RXD |
| Green | RS232 TXD |
| Grey | Trigger input（TTL level） |

*Remark:*

*1. Specifications are subject to change, please pay attention to our latest one.*

*2. Smart Identify Co.,Ltd. reserve the right to the final interpretation of the above terms.*

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