



UHF  
Reader

(Built-in / External Antenna)

Model : SID-U861Dk-USB

Size : 122mmx87mmx23mm

Weight : 111g

## GENERAL DESCRIPTION

SID-U861DK-USB is a high performance UHF RFID 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) , ISO18000-6B protocol tag;
- 860~868MHz, 902~928MHz frequency band (frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- No external power source needed;
- Built-in antenna with effective distance is around 1m<sup>\*</sup>;  
External antenna with effective distance is up to 1.5m<sup>\*</sup>;
- Support auto-running, interactive and trigger-activating work mode;
- Support USB1.1 interface with VSP(Virtual Serial Port) or HID mode;
- Provide DLL and Demonstration Software Source code to facilitate further development.

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

## C H A R A C T E R I S T I C S

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	5	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=+5V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	4.5	5	5.5	V
Current Dissipation	I <sub>C</sub>		300	400	mA
Frequency	F <sub>REQ</sub>	860	860~868 902~928	928	MHz
Effective Distance*	Dis	0	300	500	cm

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

Remark:

- Specifications are subject to change, please pay attention to our latest one.
- Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.