

USB UHF RFID Desktop Reader STA IR9816

GENERAL DESCRIPTION

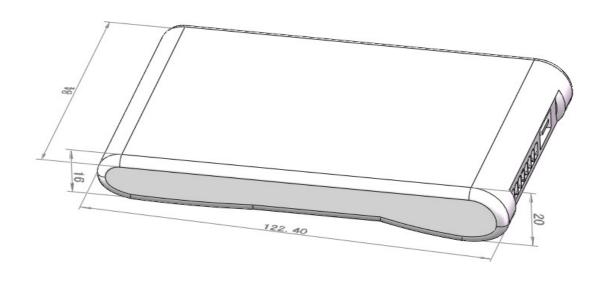
STA IR9816 is a high performance UHF RFID reader. It is designed upon dedicated RFID Engine ASIC. Based on proprietory efficient digital signal processing algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, anti-counterfeit and industrial production process control system.



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;
- Effective range from 10~200cm (adjustable according to real application need);
- Multiple tag anti-collision>50pcs/s;
- Multiple tag inventory speed>50pcs/s;
- Tag buffer size: 370PCS@Max.128bitsEPC or 120PCS@Max.496bitsEPC;
- Low power dissipation with USB power source or external single +9 DC power supply;
- Support RSSI;
- Support 2 GPIO;
- Support USB (Virtual Serial Port mode), RS232, Wiegand (optional) and USB HID (keyboard wedge emulation)
- High reliability design without extra heat-sinking measure;
- Support on-the-site firmware upgrading.
- Size: 122.4mmx84mmx20mm

MECHANICAL DATA(UNIT mm):



CHARACTERISTICS

Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC (USB power source)	6	- v
	VCC(External power source)	12	
Operating Temp.	T _{OPR}	-10~+70	$^{\circ}$
Storage Temp.	T _{STR}	-20~+85	$^{\circ}$

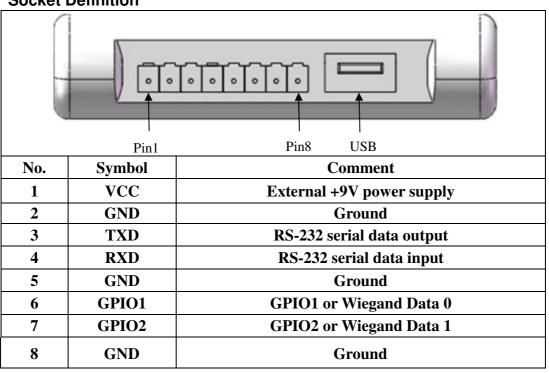
• Electrical Specification

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC (USB powered)	4.5	5	5.5	V
	VCC (External supply)	7	9	12	V
Current dissipation	I_{C}		180	380	mA
Frequency*	F_{REQ}	902		928	MHz
RF power	P_{RF}	0		26	dBm
RF power Accuracy	AP		+/-1		dB
RF power Flatness	FP		+/-0.2		dB
Receiving Sensitivity	SR		-70		dBm
Size	L×W×H		122.4*84*20		mm

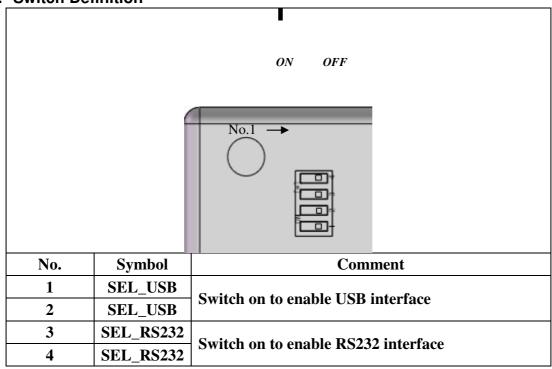
^{*}European Frequency band (865M~868MHz) optional

INTERFACE

1. Socket Definition



2. Switch Definition





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