UHF RFID Desktop Reader

Model No.: QSF4100

GENERAL DESCRIPTION

QSF4100 is a high-performance UHF desktop reader ,which with built-in antenna and reading distance can reach 1m. Combined with a unique high-efficiency signal processing algorithm, it achieves high reading rate while achieving electronic labeling. Fast read and write processing, can be widely used in logistics, access control systems, anti-counterfeiting systems and production process control and other radio frequency identification (RFID) systems.

FEATURES

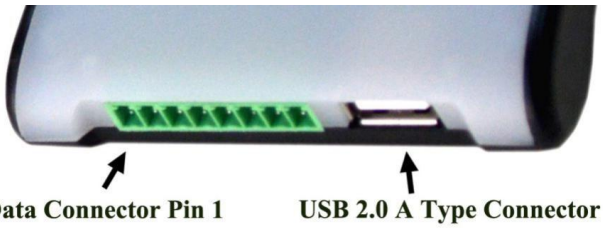
- Self-intellectual property;
- Support ISO18000-6C(EPC C1G2) protocol tag;
- 902~928MHz or 865~868MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- Effective range from 10~300cm (adjustable according to real application need);
- Multiple tag anti-collision>50pcs/s;
- 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 and 2 GPIO;
- Support USB (VSP mode), RS232, Wiegand (optional) and USB HID (keyboard emulation)

- High reliability design without extra heat-sinking measure;
- Support on-the-site firmware upgrading.

Electrical Characteristics：

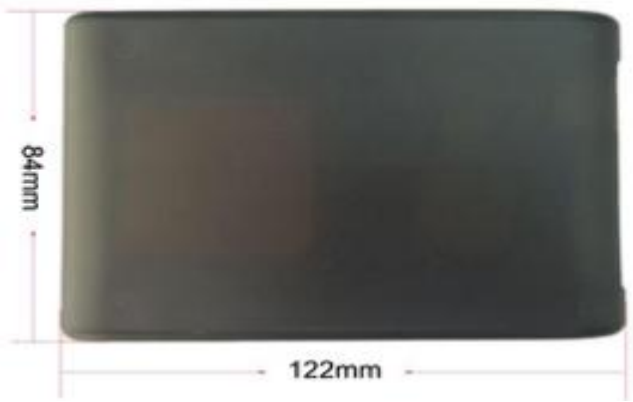
Input Voltage	DC 3.5V – 5 V.	
Standby Current	<80mA.	
Working Current	180mA @ 3.5V (26 dBm Output,25°C).	
	110mA @ 3.5V (18 dBm Output,25°C).	
Starting Time	<100mS.	
Operating Temperature	- 20 °C - + 70 °C	
Storage Temperature	- 20 °C - + 85 °C	
Operating Humidity	< 95% (+ 25 °C)	
Air Interface Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C	
Spectrum Range	902Mhz – 928Mhz, 865MHz – 868MHz (Optional)	
Supported Regions	US, Canada and other regions following U.S. FCC	
	Europe and other regions following ETSI EN 302 208	
	Mainland China	
	Japan	
	Korea	
	Malaysia	
	Taiwan	
Output Power	10dBm, 18-26 dBm	
Output Power Precision	+/- 1dB	
Output Power Flatness	+/- 0.2dB	
Receive Sensitivity	< -70dBm	
Peak Inventory Speed	> 50 pcs/s	
Tag Buffer Size	200 pcs @ 96 bit EPC	
Tag RSSI	Supported	
Antenna	D-100	2dbi Circular Polarization Antenna.
		Read range:80cm-200cm (Tested with Impinj E41b tag)
	D-101	0dbi Circular Polarization Antenna.
		Read range:10cm-50cm (Tested with Impinj E41b tag)
Host Communication	USB 2.0, RS-232, Wiegand 26, Wiegand 34	
Baud Rate	115200 bps (default and recommended)	
	38400 bps	

3.PIN Assignments



PIN	Interface	Description
1	+ 9V	External 9V power supply. (Note: Don't connect an external power supply and USB power supply both.)
2	GND	Common ground with +9V external power.
3	RS-232 TXD	RS-232 data output.
4	RS-232 RXD	RS-232 data input.
5	GND	Common ground with RS-232 interface.
6	GPIO3	GPIO3 or Wiegand Data 0.
7	GPIO4	GPIO4 or Wiegand Data 1.
8	GND	Common ground with Wiegand data.

4.Structure Dimensions



Address: Floor 1012, Jinhua building,Long Feng 3 Road,Longhua New District,Shenzhen
Tel: 0755-23760901, Fax: 0755-23716537, Web: www.rfid-global.com.cn, Email: sales@rfid-global.com.cn