

UHF Middle Range Integrated Reader



Name: UHF Middle Range Integrated Reader

Model Number: UHF5111

Size: 220 x 220 x 60mm



General Description:

UHF5111 is a high performance UHF RFID integrated reader. It is designed upon fully self-intellectual property. Based on efficient DSP 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.

Application:

- ♦Vehicle no-stop toll management (car parking lot)
- ♦Logistics and warehouse management
- ♦Production flew-line management
- ♦Animals' recording management
- ♦Products anti-counterfeiting detection

Other field:

- **♦**Club management
- **♦**Library management
- ♦School and factory access control
- ◆Attendance management and more

Features:

- 1. Self-intellectual property;
- 2. Support ISO18000-6C (EPC C1G2) protocol tag;
- 3. 865~868MHz, 902~928MHz frequency band (frequency customization optional by Soft);
- 4. FHSS or Fix Frequency transmission;
- 5. RF output power up to 30dBm (adjustable);
- 6. 7dBi circular antenna with effect distance up to 0m~8m*;
- 7. Support active mode, answer mode, trigger-activating and password work mode;
- 8. Low power dissipation with single +12V DC power supply;
- 9. Support RS232, RS485, Wiegand interface, Relay, USB, RJ45, WIFI, POE,4G;
- 10. One Relay (Optional) can control Beep, Motor, Light.
- 11. Support ModBus (only RS232, RS485, RJ45 interface).
- * Effective distance depends on antenna, tag and environment.

Product mode explanation:

Model	Interface	
SW1907	Standard(RS232, RS485, Wiegand, Trigger)	
SW1907T	Standard with RJ45	
SW1907W	Standard with WIFI	
SW1907TW	Standard with RJ45 and WIFI	
SW1907TP	Standard with RJ45 and POE	
SW1907TPW	Standard with RJ45 and POE and WIFI	
SW1907R	Standard with Relay	
SW1907U	Standard with USB(HID & Keyboard)	
SW1907G	Standard with 4G	
-T: RJ45 -W:WIFI -P:POE -R: Relay -U:USB -G: 4G		



Characteristics:

Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	24	٧
Operating Temp. T _{OPR}		-20~+60	$^{\circ}$
Storage Temp.	T _{STR}	-40~+85	℃

Electrical and Mechanical Specification

Under TA = 25°C, VCC = +12V unless specified

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Power Supply	VCC	8	12	24	V
Current Dissipation	Ic		600	1000	mA
Frequency	F _{REQ}	865		928	MHz

Product Technical Parameters

Туре			
Model Number	SW1907		
Туре	UHF Middle Range Integrated Reader		
Physical parameters			
Dimensions	220x220x60mm		
Net Weight	2.0Kg		
Gross Weight	2.5Kg		
Package size	40.5*30.5*10.5cm		
Shell material	ABS		
Color	Gray White		
Environmental p	arameters		
Operation Temperature	-20~+60°C		
Storage Temperature	-40~+85°C		
Humidity	$5\%{\sim}95\%$ RH, Non-condensing		
Waterproof Rank	IP65		
Performance			
Frequency	902~928MHz,860~868MHz(frequency customization optional)		
Ant.	7 dBi circular polarization antenna		
RF Power	0 - 30dBm		
Read Distance *	0-8m * Effective distance depends on antenna, tag and environment.		
Write Distance *	0-4m * Effective distance depends on antenna, tag and environment.		
Read Rate	200cnt / second		
Read Type	ISO18000-6C (EPC Gen2)		
Reading Prompt	Buzzer		
Working Voltage	DC +9 - 24V, 12W		
Work Mode	Active mode, Answer mode, Trigger mod, Password mode		
Communication	RS232, RS485, WG26, WG34, Trigger, Relay(Optional), RJ45(Optional), WIFI(Optional), POE(Optional),USB(Optional),4G(Optional)		



Net	RJ45 support TCP Client/Server, Modbus, DNS, DHCP. WIFI support TCP Client. 4G support TCP Client. HTTP Protocol(Optional), MQTT(Optional), LLRP(Optional)
SDK	
	Support X86 & X64, C++, C#, VB, Delphi, Linux, ARM, Python, NodeJS, QT, JAVA, Android.
SDK	python 🏺 🦝 🔀 👙 Java 🥬

Interface

Item	Comment
Red	VCC (DC 9V – 24V)
Black	GND
White	RS232 TXD
Purple	RS232 RXD
Brown	GND
Yellow	Wiegand DATA0
Green	Wiegand DATA1
Gray	GND
Pink	RS485 A+
Orange	RS485 B-
Aqua	Trigger input+ (TTL level)
Blue	Trigger input- (TTL level)