

# UHF RFID Integrated Reader



**UHF long range reader**

**Size: 445mmx445mmx55mm**

## Product mode explanation

Model	Interface
CF-RU5112	Standard(RS232, RS485, Wiegand)
CF-RU5112T	Standard with tcp/ip
CF-RU5112w	Standard with Wifi

## General Description

CF-RU5112 is a high performance UHF RFID integrated 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, anti-counterfeit and industrial production process control system.

## FEATURES

1. Self-intellectual property;
2. Support ISO18000-6B, ISO18000-6C(EPC C1G2) protocol tag;
3. 865~868MHz, 902~928MHz frequency band(frequency customization optional);
4. FHSS or Fix Frequency transmission;
5. RF output power up to 30dbm(adjustable);
6. 12dbi antenna optional with effect distance up to 10m<sup>\*</sup>;
7. Support auto-running, interactive and trigger-activating work mode;
8. Low power dissipation with single +9 DC power supply;
9. Support RS232, RS485, Wiegand TCP/IP interface;

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

## CHARACTERISTICS

### ● Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T <sub>OPR</sub>	-10~+55	°C
Storage Temp.	T <sub>STR</sub>	-20~+75	°C

### ● Electrical and Mechanical Specification

Under T<sub>A</sub>=25°C, VCC=+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	I <sub>C</sub>		350	650	mA
Frequency	F <sub>REQ</sub>	902		928	MHz

## 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)