



## UHF Mid-range reader

### Product mode explanation

Model	Interface
CF-RU5106	Standard(RS232, RS485, Wiegand)
CF-RU5106T	Standard with tcp/ip
CF-RU5106w	Standard with Wifi

### Product Description

RU5106 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. 8dbi antenna with effect distance up to 3m-5m\*;
7. Support auto-running, interactive and trigger-activating work mode;
8. Low power dissipation with single +9V DC power supply;
9. Support RS232, RS485, Wiegand interface;

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

### Characteristics

#### 1. 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

## 1. Electrical and Mechanical Specification

Under  $T_A=25^{\circ}\text{C}$ ,  $V_{CC}=+12\text{V}$  unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	$I_C$		350	650	mA
Frequency	$F_{REQ}$	902		928	MHz

**Interface**

Item	Comment
Red	+9V
Black	GND
Green	Wiegand DATA0 (RS485 R+)
White	Wiegand DATA1 (RS485 R-)
Brown	RS232 RXD
Yellow	RS232 TXD
Grey	Trigger input (TTL level)
Blue	GND