

GENERAL DESCRIPTION



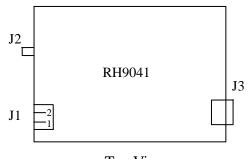
CF-RH9041 is a high performance ISO15693 protocol HF tag reader. It is designed upon fully self-intellectual property. Based on proprietory efficient anti-collision algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, personnel identification, conference attendance system, access control, anti-counterfeit and industrial production process control system.

FEATURES

- Self-intellectual property;
- Support mainstream ISO15693 protocol tag (TI, PHILIPS, ST, INFINEON, FUJITSU, EM...);
- RF output power over 4W;
- Advanced anti-collision algorithm. High identification rate with tag processing speed 30~50pcs/s);
- SMA RF interface to support standard 50ohm RFID antenna. Effective distance up to 90cm;
- Support TRANSPARENT COMMAND;
- Support optional DPPM and WPPM;
- Support multiple readers network;
- Low power dissipation;
- Provide DLL and demonstration software to facilitate development



INTERFACE DESCRIPTION



Top View

1. Power Supply Socket J1

No.	SYMBOL	COMMENT
J1-1	PWR	+11.6~15V
J1-2	GND	Ground

2. SMA Antenna Socket J2

3. Communication Socket J3

Standard DB9 Female Socket to be directly connected to the host.

No.	SYMBOL	COMMENT				
1	G_IN1	General TTL level input with internal $20k\Omega$				
		pull-up resistor to +5V				
2	TXD (R-)	RS232 serial data output or RS485 R-				
3	RXD (R+)	RS232 serial data input or RS485 R+				
4	G_OUT1	General TTL level output with drive/sink 5mA				
		current (max.)				
5	GND	Ground				
6	G_OUT2	General TTL level output with drive/sink 5mA				
		current (max.)				
7	COMMON	Common contact of built-in relay				
8	N_C	Normally close contact of built-in relay				
9	N_O	Normally open contact of built-in relay				

CHARACTERISTICS

• Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
G_IN1、G_OUT1、 G_OUT2 I/O Voltage	V _{IO}	7	V
Operating Temp.	T _{OPR}	-25~+60	°C
Storage Temp.	T _{STR}	-25~+80	°C

• Electrical and Mechanical Specification



Under $T_A = 25 \degree$ C, VCC=+12.6V unless specified

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply		VCC	11.6	12.6	15	V
Current Dissipation		I _C		0.8	1.2	Α
Frequency		F _{REO}		13.56		MHz
Effective Distance*		DIS	0	900	1000	mm
G_IN1 Input Level		V _{IH}	3.5	2.6		V
-		V _{IL}		2.3	1.55	V
G_OUT1, G_OUT2 Output Current		$\pm I_{O}$			5	mA
G_OUT1、G_OUT2 Output Level		$\begin{array}{c} V_{OH}(I_{O}=-5m\\ A)\\ V_{OL}(I_{O}=5m\\ A) \end{array}$	3.95		0.73	V
Relay	Rated Load	C _{LOAD}			0.5A at 125VAC 1A at 24VDC	
	Operating Voltage				125VAC 60VDC	V
	Operating Current				1	А
Size		L x W x H		215 x 138 x 39		mm

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