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HF Fixed Reader

RFID-RDT-H9291TDB

HF Long Distance Reader ISO15693

HF Fix Reader

Model : FIX-9291TDB

Size : 210x160x68 mm

Weight : 2380g

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HF Fixed Reader

RFID-RDT-H9291TDB

GENERAL DESCRIPTION

HF long distance reader 9291TDB is a high performance tag reader. It is designed upon. fully self-intellectual property. Based on proprietary 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, Industrial Production Process Control System, etc.

FEATURES

- Self-intellectual property;
- Support ISO/IEC15693, ISO18000-3 protocol tag;
- RF output power 0.25W~8W (software adjustable);
- Advanced anti-collision algorithm, high identification rate, typical tag processing speed is over 80 tags/s;
- SMA RF interface to support standard 50ohm RFID antenna. Effective distance up to 100cm*;
- Support Scan-mode①;
- Support EAS scan mode;
- Support external input and command synchronization in scan mode;
- Support Transparent Command operation②;
- Support DPPM/WPPM tag-parsing mode③ and maximize improving processing speed;
- Support antenna failure detection;
- Support RS232 interface, provide RJ45(TCP/IP) and WiFi for choice;
- Baud rate is adjustable;
- Low power dissipation with single +24V DC needed;
- Provide DLL and Demonstration Software Source code to facilitate further development.

①*Scan-mode: It refers to reader's automatic working mode.*

②*Transparent Command Operation: It is an advanced feature designed to support tag's future functions and different chip venders customized tag functions.*

③*DPPM/WPPM Tag-parsing Mode: DPPM tag-parsing mode means depth-first parsing pattern and WPPM means breadth-first parsing pattern. They are different methods of decoding multiple tags.*

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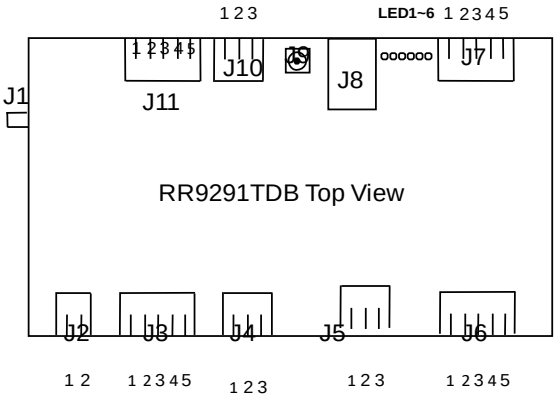
INTERFACE DESCRIPTION



No.	SYMBOL	COMMENT
J1	J1	RFID antenna socket
J2	J2-1	+24V DC positive terminal
	J2-2	+24V DC negative terminal
J3	J3-1	Reserved
	J3-2	Reserved
	J3-3	GND
	J3-4	WCR：serial WiFi configuration data input
	J3-5	WCT：serial WiFi configuration data output
J4	J4-1	GND
	J4-2	RXD：RS232 data input
	J4-3	TXD：RS232 data output
J5	J5-1	GND
	J5-2	R-：RS485 data
	J5-3	R+：RS485 data
J6	J3-1	RB-：RS422 data output
	J3-2	RB+：RS422 data output
	J3-3	GND
	J3-4	RA-：RS422 data input
	J3-5	RA+：RS422 data output
J7	J7-1	OC+：general output1 (optical coupler insulated)
	J7-2	OC-：general output1 (optical coupler insulated)
	J7-3	IN+：general input (optical coupler insulated, it can be optionally pulled up to +24V)
	J7-4	V-：+24V DC output ground terminal
	J7-5	IN-：general input (optional coupler insulated)
J8	J8	TCPIP　RJ45 socket (RJ45) (optional)
J9	J9	WiFi antenna socket
J10	J10-1	Reserved
	J10-2	OC-：general output2 (optical coupler insulated)
	J10-3	OC+：general output2 (optical coupler insulated)
J11	J11-1	Relay common node
	J11-2	Relay normal-close node
	J11-3	Relay normal-open node
	J11-4	V-：+24V DC output ground terminal
	J11-5	V+：+24V DC output positive terminal
LED1~6	LED1	Red：TCPIP network indicator
	LED2	Green：TCPIP network indicator
	LED3	Orange：serial data output
	LED4	Green：serial data input indicator
	LED5	Blue：reader command executing indicator
	LED6	Red：RFID antenna failure indicator

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CHARATERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	28	V
Optical Coupled Input/Output	V_{OPC}	30V / 30mA	
Operating Temp.	T_{OPR}	-20 ~ +65	℃
Storage Temp.	T_{STR}	-25 ~ +80	℃

- Electrical and Mechanical Specification
  Under T_A＝25℃, VCC＝+24V and RF output power 4W unless specified.

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply		VCC	22	24	26	V
Current Dissipation		I_C		0.68	1.2	A
Frequency		F_{REQ}		13.56		MHz
Effective Distance*		DIS	0	900	1000	mm
Relay	Rated Load	C_{LOAD}			0.5A at 125VAC 1A at 24VDC	
	Operating Voltage				125VAC 60VDC	V
	Operating Current				1	A

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

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