HF Long Distance ISO/IEC 15693 Protocol 12-Port Reader

Model: RR9299TZF-FZ12

Size: 207 ×185×38 mm

GENERAL DESCRIPTION

RR9299TZF-FZ12 is a high performance ISO/IEC 15693 protocol HF reader. It is designed upon fully self-intellectual property. Based on Aquilaware platform with full Digital-Signal-Processing (DSP) architecture and proprietary 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 smart book shelf, intelligent library management, new retail machine, logistics, access control, anti-counterfeit and industrial production process control system.

FEATURES

- Self-intellectual property;
- Aquilaware full digital signal processing architecture without manual adjustment;
- Support ISO/IEC 15693 compatible protocol;
- RF output power adjustable from 0.5~5W (7W);
- Advanced anti-collision algorithm with high identification rate up to 80pcs/s*;
- Support 12 standard 50ohm RFID antennae with effective distance up to 90cm*;
- Support antenna quality and status check;
- Support RS232 and TCPIP interface;
- Provide DLL and demonstration software to facilitate development;
- Support on-the-site firmware upgrading.

**Effective reading distance and tag interrogation speed are directly related to the antenna, tags, and the working environment.*

CHARACTERISTICS

- **Absolute Maximum Ratings**

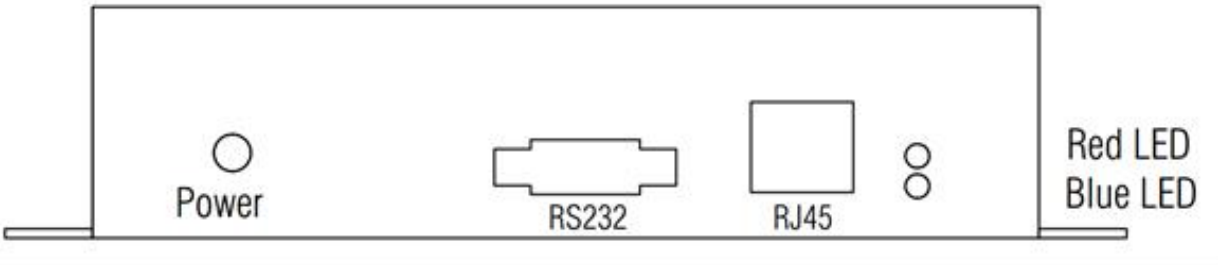
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	28	V
Operating Temp	T_{OPR}	-25 ~ +65	℃
Storage Temp	T_{STR}	-40 ~ +85	℃

- **Electrical and Mechanical Specification**

Under T_A=25℃,VCC=+24V unless specified

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply		VCC	12	24	26	V
Current Dissipation		I_C	0.3(0.5W)	0.6(5W) 0.7(7W)	1	A
Frequency		F_{REQ}		13.56		MHz
Effective Distance*		DIS		90	100	mm
GPI Input		V_{IH} V_{IL}	2.4 0	-	3.3 0.9	V
Relay	Rated Load	C_{LOAD}			0.5A at 125VAC 1A at 24VDC 125VAC 60VDC	V
	Operating Voltage					
	Operating Current				1	A

INTERFACE



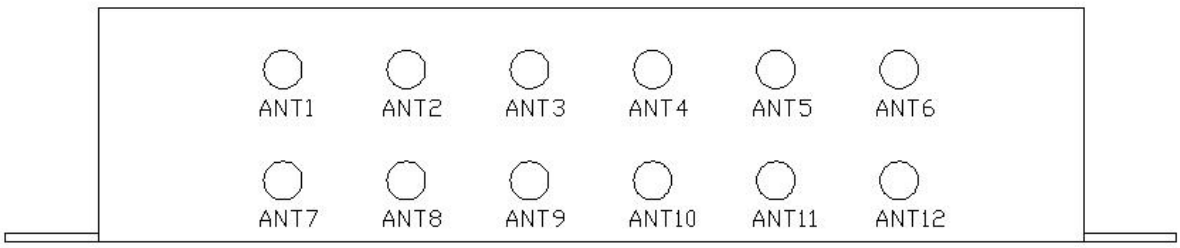
Red: ON for normal work and BLINKING for abnormal warning such as antenna broken.
Blue: ON for command executing and OFF for idle state.

UART (RS232 DB9 Female)

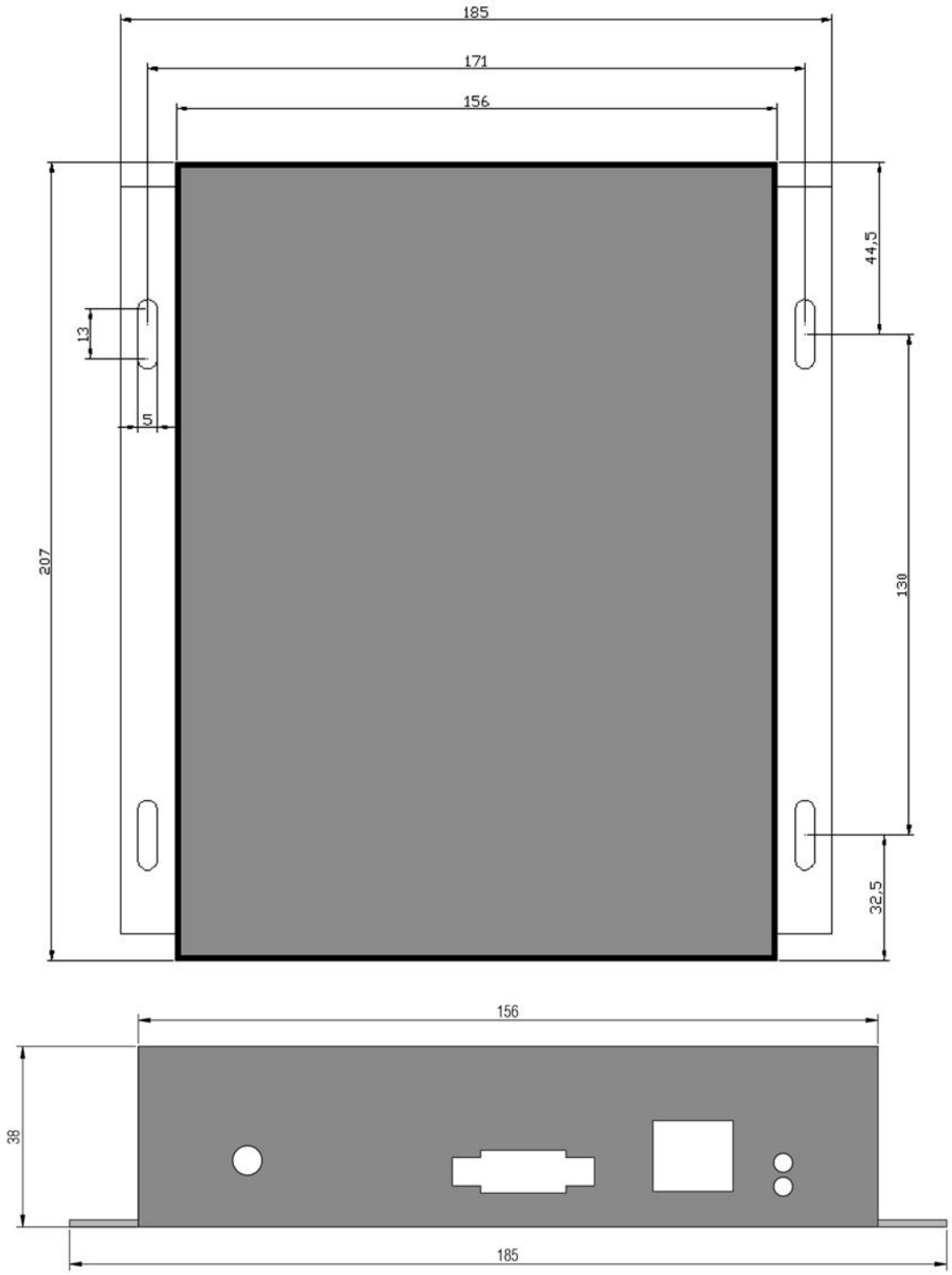
No.	Symbol	Comment
1	GPI	General Input with TTL level and internal 40k resistor pulled up to 3.3V
2	TXD	RS232 data output
3	RXD	RS232 data input
4	NC	Reserved
5	GND	Ground
6	NC	Reserved
7	CM	Relay common node
8	NC	Relay normal-close node
9	NO	Relay normal-open node

TCPIP network (RJ45)

SMA antenna port (ANT1~ANT12)



MECHANICAL DATA (UNIT:mm)



Remark:

1. Specifications are subject to change, please pay attention to our latest version.

2. Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.

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