Smart Identify
Smart choice you choose

HF Tag reader RS232+TCP/IP

SID-FXRD-HF9299-TZF4

Long Distance ISO/IEC 15693 Protocol HF Tag Reader

Model : HF9299-TZF4

Size : 220 x 185 x 38 mm

Weigh : 1300g

Smart identify Ltd.
594/9 Hathairat Road, Bangchan Klongsamwa, Bangkok 10510 Thailand
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GENERAL DESCRIPTION

HF9299-TZF4 is a high performance ISO/IEC 15693 protocol HF reader. It is designed upon fully self-intellectual property. Based on 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;
- 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 4 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 distance depends on antenna, tag and environment.*

CHARACTERISTICS

- **Absolute Maximum Rating**

项目	符号	数值	单位
电源电压	VCC	28	V
工作温度	T_{OPR}	-20~+65	℃
贮藏温度	T_{STR}	-25~+80	℃

- **Electrical and Mechanical Specification**

Under T_A＝25℃，4W RF power and VCC＝+24V unless specified

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply		VCC	13	24	26	V
Current Dissipation		I_C		0.56	1.0	A
Frequency		F_{REQ}		13.56		MHz
Effective Distance*		DIS	0	900	1000	mm
GPI Input		V_{IH} V_{IL}	1.7	2.3 0.9	3.3 1.5	V
Relay	Rated Load	C_{LOAD}			0.5A at 125VAC 1A at 24VDC	
	Operating Voltage				125VAC 60VDC	V
	Operating Current				1	A

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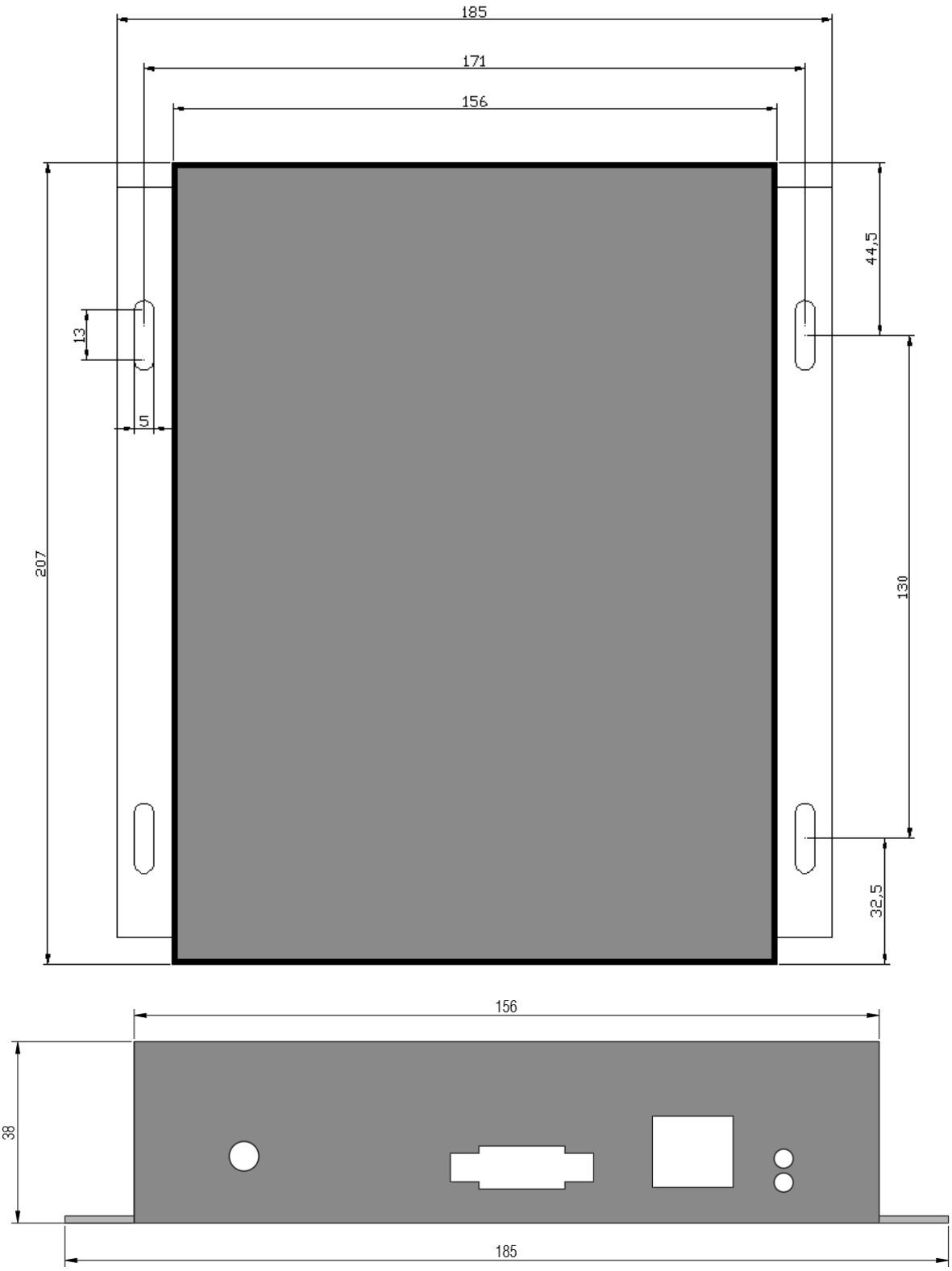
MECHANICAL DATA(UNIT mm)



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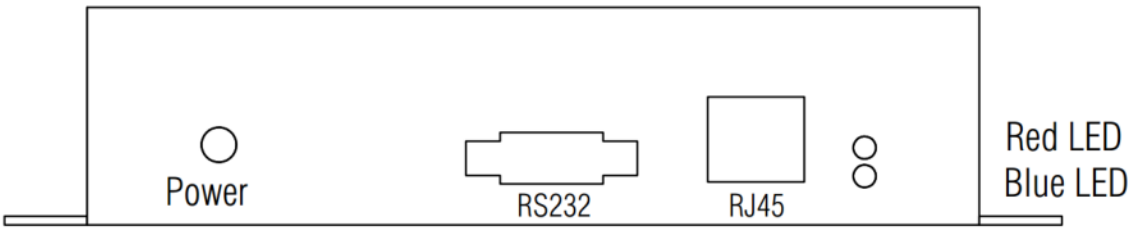
INTERFACE

1. Host 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.

RS232 Definition:

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

RJ45 Socket: TCPIP interface.

2. Antenna Interface