ZS08PE

Integrated UHF RFID Reader



Model: ZS08PE | Protocol: ISO 18000-6C/E1G2 | Read Range: 0–20 m

0–20 m Read Range	33dBm High Power	400 Tags/s Fast Reading	Multi-Protocol Support

1. Basic Parameters

Model	ZS08PE
Product Name	Integrated UHF RFID Reader
Color	White
Overall Dimensions	225 × 225 × 55.5 mm
Weight	1.00 kg
Housing Material	Engineering plastic

2. RF Performance Parameters

Frequency Range	920–925MHz; 902–928MHz; 865–868MHz
Air Interface Protocol	ISO18000-6C/E1G2; GB/T 29768 and GJB 7377.1 protocols supported (Customizable)
Port Output Power	33dBm ± 1 dB (MAX)
Maximum Receive Sensitivity	−75dBm
Antenna Gain	8dBi circularly polarized antenna
Frequency Hopping Mode	Wide-spectrum frequency hopping(FHSS) or fixed frequency, software configurable

3. Read/Write Performance

Continuous Tag Read Distance	0–20m, success rate> 95% over 100 consecutive reads (interference-free environment)
Continuous Tag Write Distance	0–7m, success rate> 90% over 100 consecutive writes
Tag Read Rate	400 tags/s
Multi-Tag Processing Capability	600 tags /3s

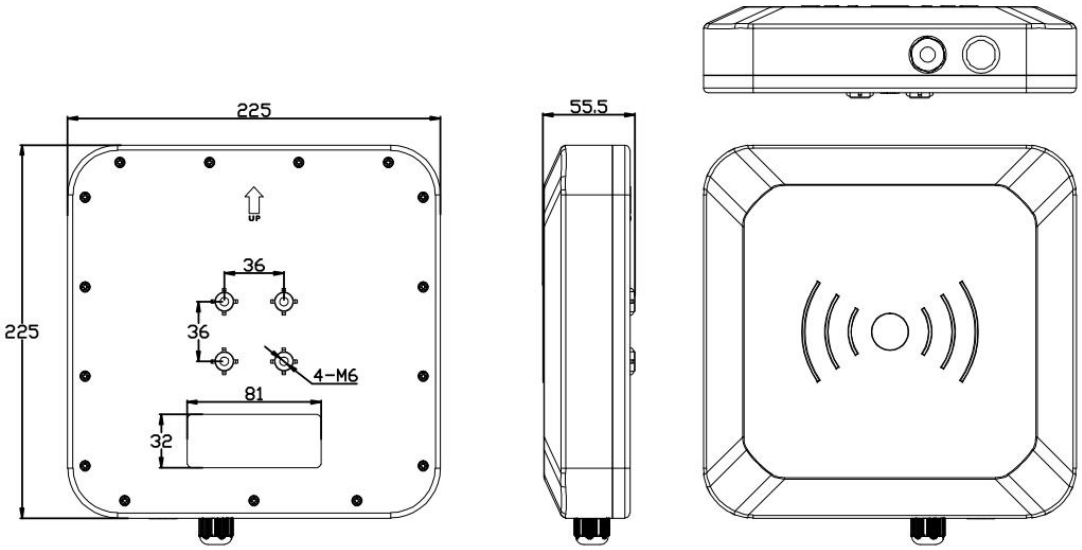
4. Interfaces and Communication

Communication Interface	RS232,RS485,RJ45(Ethernet);BT+Wi-Fi/4G customizable
RS-232 Baud Rate	9600/19200/115200 (default)/460800 selectable
Ethernet Speed	10M/100M auto-negotiation
GPIO	2 optocoupler inputs + 2 relay outputs (DC 30V/1A; one relay closes when a tag is read)
Working Status Indicator	LED indicator (above the RJ45 port) + buzzer

5. Electrical Parameters

Operating Voltage	DC9–24V

6. Product Dimensions and Packing List



Standard Accessories	Power adapter × 1, mounting bracket × 1, Ethernet cable, test card, certificate of conformity
Optional Accessories	Universal wall-mount bracket, pole-mount bracket

7. Interface Wiring

GPIO Interface

Pin No.	Pin Definition	Description
1	GPO1_L	Relay 1 output L (R and L close when a tag is read)
2	GPO1_R	Relay 1 output R (R and L close when a tag is read)
3	GPO2_L	Relay 2 output L (normally open by default)
4	GPO2_R	Relay 2 output R (normally open by default)
1	GPI1	Optocoupler 1 input control signal
3	GPI2	Optocoupler 2 input control signal
2	GND	Power ground

▸ RS485 / Wiegand Interface

Pin No.	Pin Definition	Description
1	RS485B	RS485 communication pin
2	RS485A	RS485 communication pin
3	GND	Power ground
4	WG_H	Wiegand communication pin (not populated by default, requires customization)
5	WG_L	Wiegand communication pin (not populated by default, requires customization)

◆ 8. Technical Support and Development

SDK	API SDK provided, supporting C#, C++, Java, Python, Swift, Android and more
Free Upgrades	Free product software upgrades and free training for various application scenarios