Standard One

With Screen

With Password

RD009 Smart QR&IC Access Control Device

Main Features

- **Wired or wireless network + QR code scanning head + RFID card reader** three-in-one access control product. Make on-site installation and maintenance simple and convenient
- The product comes with a voice amplifier and speaker, the voice of common in and out events can be set, can control the playback of nearly 150 voices, can customize the voice, and can expand the TTS voice function
- **Encrypted QR code** that complies with the agreed rules can open the door/gate directly when it is not connected to the Internet.
- The agreed rules mainly include:

1) the effective start time and end time of the QR code;

2) the effective number of the QR code, if the number of uses exceeds the number of uses, the QR code can no longer be used;

3) the equipment MAC matching or project number building number Matching, a QR code can contain one or more device numbers, which can be legally valid on multiple devices;

4) The encryption key of the QR code can be modified without leaving any backdoors or loopholes to

ensure the security of the QR code.

- Common parameters such as **network IP parameters and lock delay can be set directly through the QR code, making on-site debugging easier**
- Equipment capacity: the card capacity is 85,000 cards and 100,000 records, the number of QR codes is 100,000 times, and the records are over-capacity and automatically cyclically covered.
- The product adopts battery-free clock holding circuit, no battery solution, no battery replacement, and smooth express delivery.
- The product adopts data memory and ferro electric memory, even if the device suddenly loses power, data will not be lost, ensuring data security
- The product can recognize **M1 card, 1208 CPU card, and can choose IC write sector or CPU card anti-copying solution**
- The network transmission standard is **wired network port RJ45 10/100M, WIFI, full Netcom 4G for data transmission**
- Support cross-gateway, cross-network segment **TCP/IP network connection**
- **Support DNS, DHCP automatic network** networking function
- Built-in hardware anti-crash watchdog, even if the chip is running abnormally, it can be recovered in time without affecting the use.
- It can be expanded and installed with Bluetooth module, LORA module, RS232/RS485 module functions, making the product application network communication more flexible.

QR Code Scanner Engine Component Parameters

- **Image Sensor:** 752X480
- **Recognition Lighting:** white light LED
- **QR Code Recognition**: QR CODE, DATA MATRIX and other formats, support mobile phone mirror recognition and paper recognition
- **One-dimensional Code Recognition**: CODE 128, Code39, UCC/EAN-128, AIM-128, EAN-8 and other format recognition;
- **Recognition Distance:** 10-55mm;
- **Recognition Angle:** 360 full angle

4G Network Parameters
- **Communication System:** 4G full Netcom
- **Applicable Frequency Band:**
LTE-FDD: B1/B3/B5/B8
LTE-TDD: B34/B38/B39/B40/B41
- **General Characteristics:**
3GPP E-UTRA Release 13
Bandwidth: 1.4/3/5/10/20MHz
- **Transmitting Power:**
LTE-TDD: Class3 (23dBm+1/-3dmB)
LTE-FDD: Class3 (23dBm+1/-2dmB)
- **LTD Feature:**

Support Cat.1;

Support VoLTE

Support 1.4-20MHz RF bandwidth

LTE-TDD: Maximum uplink rate 4Mbps, maximum downlink rate 8Mbps

LTE-FDD: Maximum uplink rate 5Mbps, maximum downlink rate 10Mbps

- **Network Protocol Features:** support TCP/UDP/PPP/FTP/HTTP/HTTPS/FTPS/MQTT

Electrical Parameters

- **Power Input:** 5-28VDC
- **Working Current:** <500mA (Note: Electric lock current is not included)
- **Relay Output:** Relay DC30V/3A, 250VAC/3A
- **Interface Protection:** All input and output interfaces have overcurrent and overvoltage protection
- **Door Lock Output:** 1 way, relay capacity DC30V/3A
- **Door Sensor Input:** 1 way
- **Button Input:** 1 way
- **Communication Transmission:** RJ45 network port, wireless 4G full Netcom (Telecom, China Mobile, China Unicom, support eSIM card)
- Voice Output: Built-in amplifier speaker, customizable voice, and extendable TTS voice
- **Card-reading Attributes**: support RFID card reading, card sector reading and writing, anti-copy CPU card reading and writing

Other Parameters

- **Installation size:** 120mm *76mm * 25mm (height * width * thickness), compatible with standard 86 box installation size
- **Working environment:** temperature and humidity 5%~95%, temperature -30℃~65℃
- **Weight:** 200g