

ACTIVE RFID READER F2411



F2411 reader is a work in the 2.45GHz frequency active RFID read and write equipment, with omni-directional and directional antenna can achieve omnidirectional directional read and write functions. The product uses an external antenna installation, flexible configuration of all kinds of omnidirectional and directional antenna, with a wide range, high recognition rate, powerful, high reliability, scalability and other characteristics, the reading distance of 0 ~ 80 The radius of the meter is adjustable.

F2411 remote reader equipped with Nordic company developed a new generation of 2.4G high-frequency transceiver chip, the main chip selected a new generation of high-performance ARM-COTEXM3 processor, with multi-device communications, watchdog, heartbeat package and real-time monitoring Equipment status information and other functions, and integrated Wiegand 26/34, RS232, RS485 and 100 Gigabit Ethernet interface and other communication interface.

F2411 reader with metal shell design, simple and beautiful appearance, compact and lightweight, durable, rich sense of science and technology and modern. The device comes with a variety of communication interfaces for quick and host connectivity.

Products using software fault tolerance and hardware anti-jamming design, in the harsh working environment for a long time continuous and stable work.

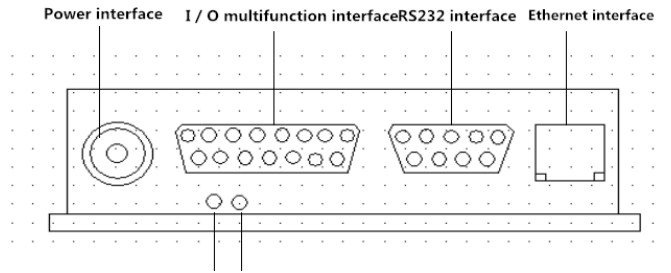
Product advantages

- Readers support Wiegand 26/34, RS232, RS485 and 100 Gigabit Ethernet interface and other communication interface.
- Readers support active reading, command triggering, timing triggering to meet the different needs of users.
- Using muti-read and write device technology to support muti-reader intensive environment work mode.
- Readers and antennas using external installation, flexible configuration of all kinds of omnidirectional and directional antenna to meet the needs of various application scenarios.
- Read the distance can be software debugging, to achieve perimeter applications.
- It provides a powerful API user interface that enables rapid integration and docking with existing user information systems.
- The design of the reader, device selection and production testing process are referenced to industrial product labels, to meet the use of various harsh conditions.

Product Technical Parameters

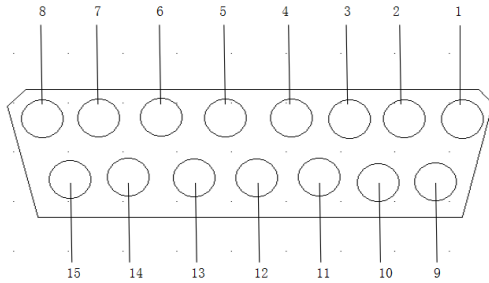
RF parameters	
working frequency	2.4~2.483G
Output Power	+20dbm
Receiving sensitivity	-95 dbm
Communication speed	1Mbit/s
Recognition angle	Omnidirectional / directional (depending on whether the array is directional or omnidirectional)
Polarization mode	Vertical polarization
Communication interface	
communication interface	RS232、RS485、Wiegand 26 / 34,10 / 100M adaptive Ethernet interface
I/O interface	2 input interface, 4 output interface
Extensible wireless module	802.11 module, the whole network through the 4G module
Firmware upgrade	Support serial upgrade
Serial communication parameters	Baud rate adjustable (default 115200bps)
Application software platform	Provide software development kit (SDK) and API
Tag operation	
Tag operation support	Private protocol
Support tag work mode	Active tag
Read tag distance	80m(depending on the output power of the tag)
Recognition speed	200 tags / sec (ID only)
Mechanical and electrical performance	
Size	208mm×125mm×35mm(L×W×H)
Weight	0.75kg
Power consumption	12W
Power	DC12V
Operating temperature	-40°C~70°C
Storage temperature	-50°C~80°C
Working humidity	5%~95~(No condensation)
IP lever	IP54

Interface description



Power & fault alarm indicator (red) Reading card indicator (green)

Multi-function interface



PIN	Name	Description
1	5V	5V power supply output
2	485-A	RS485 A data interface
3	485-B	RS485 A data interface
4	GPIO_IN1	IO input control interface
5	GPIO_IN2	IO input control interface
6	NC	-
7	NC	-
8	GND	Ground
9	GPIO_OUT1	configured Wiegand DATA0 output
10	GPIO_OUT2	Configured Wiegand DATA1 output
11	GPIO_OUT3	GPIO output, through the program to control the high- and low-level output. Output high level is 5V, low level is 0V. The maximum output current is 100mA. (The default output level is low 0V)
12	GPIO_OUT4	GPIO port output, through the program to control the high- and low-level output. Output high level is 5V, low level is 0V. The maximum output current is 100mA. (The default output level is low 0V)
13	NC	-
14	NC	-
15	12V	12V power output