

2.45G Omni-directional Active RFID Reader for Real-Time Inventory in Warehouse or Supermarket

ACM-R2430 is a self-developed high-performance 2.4G electronic tag fixed reader. With complete independent intellectual property rights, the reader's default working frequency band is 2.4GHz, with strong multi-tag recognition capabilities, long reading distance, high protection performance, and convenient installation and configuration.

Feature:

The 2.4G active reader ACM-R2430A developed and produced by ACM is an industrial-grade, high-performance, ultra-low power consumption, high recognition sensitivity, long-distance, transceiver integrated, 2.4G frequency band 360 degrees, RFID reader products, fully comply with RFID 2.4G frequency band ISO/IEC18000-4 standard. The reader design uses the ARM32-bit Cortex-

M7 core, and an embedded MCU with a main frequency of 500MHz as the main control processor, thereby improving the processing capacity of multi-reading cards; it adopts the industry's most advanced high-receiving sensitivity. The embedded radio frequency SoC is used as a 2.4G transceiver unit, which greatly increases the reader's reading distance; supports TCP/IP protocol and STA+AP multi-working mode, unique radio frequency design and omnidirectional high-bandwidth antenna design configuration, thereby enhancing the outdoor 2.4G reception coverage effect is improved. In addition, the reader design supports the POE network port power supply in an industrial control environment, thereby simplifying the complex conditions of indoor installation and deployment.

The software design of the reader adopts ACM's unique RFID tag anti-collision algorithm and multi-channel switching anti-interference technology, thereby improving the recognition ability and reading speed of multi-card reading; it adopts an antenna with controllable gain and RSSI filtering. The channel control technology facilitates users to adjust the card reading distance; the reader also provides different data communication protocols, network layout, convenient for users to carry out secondary development or system integration, to meet users' different active radio frequency identification solutions.

The reader also supports two-way communication between the RFID reader and the tag. The reader transmits control commands to control the tags in the area through the 2.4G wireless channel. It can control the power, working fr

equency, sleep, and rewrite tags. Wake up, tag IO output control and other working parameters, so as to control the working status of the tag. The two-way communication of the reader can prevent other tags outside the system from being read, thereby completely solving the same-frequency interference of such tags, thereby ensuring the reliability of the information exchange between the tags and the reader in the system And accuracy.

The software upgrade and maintenance of the reader adopts the remote wireless WiFi access point upgrade method, as well as the wired network port and wired RS232 serial port upgrade method, which is convenient and flexible for users to operate.

The reader supports card reading through 2.4G WiFi/4G-LTE/RS232/RS485/Ethernet communication, and flexible networking configuration according to the different use environments of different customers to solve various actual RFID use requirements of customers.

The reader also supports GPS L1, GLONASS, BDS positioning. The positioning accuracy can reach below 3 meters.

The metal structure appearance of this reader designed by ACM is heavy and stable, and it meets the IP67 waterproof standard. It is the best choice for many users to remotely manage and locate outdoor RFID assets.

Product Parameter	Parameter Description
Product Name	2.45G Omni-Directional Active RFID Reader
Working frequency	2.4G ISM (2402~2483MHz)
Size	230.6*164*72mm
Weight	1.2kg
Material	Die-cast aluminum
RFID RF communication standard	Meet ISO18000-4-2015
Operating mode	Transceiver
Mobile recognition speed	200km/h
IP protection level	IP67
Wired tag reader communication interface	RS232/RS485
Communication method	RS232/RS485/Ethernet/4G-LTE/2.4G-WiFi
2.4G RFID antenna interface	50ohm N-type(Female)
4G-LTE antenna interface	50ohm N-type(Female)
GNSS antenna interface	50ohm N-type(Female)
2.4G WiFi antenna interface	50ohm N-type(Female)
Power supply interface	DC 5.0V/3A
Max power consumption of the whole machine	2W (4G tag reader mode)
Operating temperature	-40°~+85°
Storage temperature	-40°~+125°
Secondary development resources	Provide DEMO and C#, C++, Java SDK

Detailed Images





Wiring Diagram of RFID UHF reader and writer

Quality Warranty

- Warranty Service will be honored if the damage is not caused by human, ACM Goldbridge provides 2 years warranty for relative products.
- On the contrary, ACM Goldbridge will cahрге extra if repair.
- More information, please browse our service center.

Application

Application of RFID UHF reader and writer

- 1, Transportation management
- 2, Vehicle management
- 3, Road and bridge toll
- 4, Custom management
- 5, Warehouse management
- 6, Car parking management
- 7, Access control management
- 8, Production management

UHF LONG RANGE READERS RFID



Packing & Delivery

Packaging

UHF reader packaging: 1 unit per box, 10 pcs per carton,
Single size : 32*32*6cm , Gross Weight :6kg.



Our Standard Packing

Single Demension : 320*320*60MM

Single Carton for each reader

6 pcs each lot with foam and yellow sticky tape fully wrap .



Shipping Way

We are one of the leading exporter of RFID products in China since 2000 years . With rich international trade experience we know the international shipping very well , We know which express or air/sea line is cheap and safe to your country . We can supply various certificate for you to clean your custom to such as CO , FTA , Form F , Form E ...Ect . We wil provide our professional suggestion for your shipping . EXW , FOB ,

FCT , CIF , CFR ...trade term are ok for us . We can be your reliable partner for products and shipping .

Your May Need

We are Professional uhf reader manufacturer , Except the ACM812A , we also can supply ACM802A , ACM818A , ACM801A . The main difference of them are the reading distance . Also , ACM801A can be used to read multi-tag(200 pcs at one time) . For more detail , please click following picture .





ACM812A
2-5m reading range UHF reader
Wiegand 26 output, RS232/485

ACM818A
10-20m long range UHF reader
Wiegand 26 output, RS232/485

ACM802A
8-10m reading range UHF reader
Wiegand 26 output, RS232/485





ACM801A
10-15m UHF reader
Wiegand 26 output, RS232/485

ACM 8017
UHF Handheld Reader
UHF+WIFI+GRPS

ACM 918K
UHF 4-Antenna Channel High
Performance Fixed Reader

Our Service

- 1, Any inquiries will be replied within 24 hours
- 2, Professional manufacturer and supplier, Welcome to visit our website and our factory
- 3, OEM/ODM Available
- 4, High quality, fashion design, reasonable & competitive price, fast lead time
- 5, After-sale Service :
 - 1), All products will have been strictly quality checked in house before packing
 - 2), All products will be well packed before shipping
 - 3), All our products have 2-3 year warranty if the damage is not caused by human
- 6, Faster delivery : Around 1~ 5 days for sample order, 7~30 days for bulk order
- 7, Payment : You can pay for the order via : T/T, Western Union, Paypal

FAQ

Q: 1. How can I place an order?

A: Please list your requirement to us via Email. Then we will send the offer to you at earliest time, after order confirmation, we will arrange production ASAP.

Q: 2. What about the payment and shipment?

A: T/T, Paypal, Western Union.

Clients can choose by sea, air or express (DHL, FedEx, TNT UPS etc.)

Q: 3. How can I get a sample to check your quality?

A: We could provide free sample to you, and the freight cost paid by you.

Q: 4. How long can I expect to get the samples?

A: It depends on the quantity. Normally 3-7 days for 5000 pcs and 7-15 days for 100,000 pcs

Q: 5. Can your products be customized?

A: Almost all of your products are customized, including the material, size, thickness and printing. OEM orders are highly welcome.

Q: 6. Are you a trading company or factory?

We are one of the biggest manufacturers of RFID cards/NFC tags/RFID keyfobs/RFID wristbands/RFID reader and access control products in China more than 20 years.