

## Summary



RF-RW202 series equipment is a powerful UHF reader, which is suitable for the application of various recording stations in the conveying system or production equipment. The maximum transmission power is up to 30 dbm, so a larger reading distance can also be obtained. The overall system has a high level of protection, even in extremely harsh environmental conditions, it can ensure fault-free operation.

RF-RW202 series products are divided into two categories: RF-RW202 and RF-RW202S. They support UHF basic functions besides reading and writing. RF-RW202 also supports self-diagnosis and self-repair of equipment. On the basis of RF-RW202, RF-RW202S is also introduced, which supports multi-sensor intelligent monitoring system internally. Therefore, it has unique functions: predictive maintenance function, operation and maintenance of the project. Debugging brings great convenience.

## application

Fixed RF-RW202 series reader combines exclusive high-efficiency signal anti-collision processing algorithm to achieve fast group reading and writing processing for a large number of electronic tags while maintaining high reading rate. It has high-performance integrated antenna, which is suitable for manufacturing, production-level logistics, distribution, supply chain management, asset management, service process or material flow control applications. In addition, the equipment integrates digital input/output interface, which can be connected with sensors and alarm devices to ensure the stable operation and reliable reading of the equipment, especially for logistics doors and other applications.

## Product characteristics

- Fully support electronic tags meeting ISO18000-6C and EPC-CLASS1/G2 standards
- Working frequency 902-928MHz/865-868MHz (adjustable according to different countries or regions)
- IM core JR2000 is used in read-write core module to realize fast group reading processing for a large number of electronic tags.
- Easy integration to various types of IT business management systems through Noah Internet of Things platform (TBL self-developed)
- Support dynamic parameter adjustment (e.g. power adjustment, frequency adjustment, etc.)
- Support hardware self-diagnosis, self-repair and predictive maintenance (combined with Noah Internet of Things platform)
- Four external SMA antenna interfaces, reading distance up to 15 meters (based on RF-TG902 white card tag test)
- Supporting Standard Ethernet Port Communication and Serial Port Communication

- Supporting digital input/output interface, directly expanding sensor and alarm equipment
- Support multiple working modes of active mode, interactive response mode and trigger mode
- Output power up to 30 dBm (step 1 db, adjustable)
- Working in a broad-spectrum frequency hopping (FHSS) or fixed-frequency transmission mode
- Compact UHF RFID reader with integrated antenna
- Easily install and debug with special UHF configuration software
- Low power design, DC 24V power supply
- Protection level: IP54.

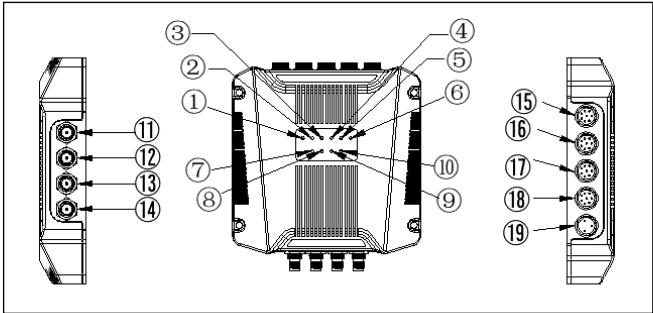
## technical parameter

type	RF-RW202 series: RF-RW202/202S/202H
Transmission frequency	902-928 MHz or 865-868 MHz (can be adjusted according to the requirements of different countries or regions) <sup>1)</sup>
Read write distance	The maximum reading distance is up to 15 meters.
Agreement	Electronic tags conforming to EPC-CLASS1-G2 (ISO18000-6C) ISO18000-6B standards,
Antenna number	1-4 external antennas, 1-4 external antennas are optional
Multi-label/batch function	Support
Vibration detection (triaxial) <sup>2)</sup>	Detection range: +2g/+4g/+8g/+16g/ Sensitivity: 1mg/digit, 2mg/digit, 4mg/digit, 12mg/digit;
Temperature Detection <sup>3)</sup>	-40 to 150°C, Accuracy: +0.3°C
Humidity detection	0 to 100% RH, Accuracy: +3.0% RH)
Interface and Communication Protocol	Ethernet, Standard Ethernet Protocol
Connect - Ethernet Power supply Digital I/O	1. Interface type: M164 pins 1 interface type: M162 pin 2 Interface Types: M168 Pin Interface 1:4 Input and Interface 2:4 Output
ambient temperature Work environment Storage environment	-10°C ~ 55°C -25°C ~ 85°C
Protection level:	IP65 <sup>4)</sup>
structure type *Dimension L * W * H (mm) Color Materials	175.6mm x 176.6mm x 36.8mm Black ABS
install	screw
Operating Voltage/Current	DC24V/0.6A
Visual indication	10 Indicator Lamps 4 Colors
Auditory indication	Buzzer (this function can be turned off for result status indication)
Extra functions	Self-diagnostic service and self-repairing function
	Supporting Predictive Maintenance Function 4)
	Dynamic parameter adjustment
	Heartbeat Service

2]Depending on the electronic label used and the environmental conditions  
2]-5] RF-RW202S supports this function

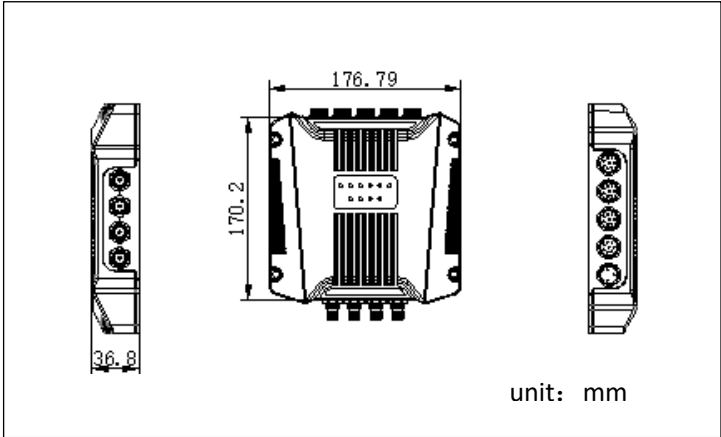
Optional Accessories

Port



- 1 POWER Power Indicator Lamp
- 2ETH Network Connection Indicator
- 3D O1 input indicator
- 4DO2 input indicator
- 5DO3 input indicator
- 6DO4 input indicator
- 7ANT1 Antenna Indicator
- 8ANT2 Antenna Indicator
- 9ANT3 antenna indicator
- 10ANT4 Antenna Indicator
- 11 antenna interface 4
- 12 antenna interface 3
- 13 antenna interface 2
- 14 antenna interface 1
- 15 Output Control DO Interface
- 16 Ethernet interface
- 17 Input Control DI Interface
- 18RS232 interface
- 19 power interface

size



category	number	Remarks
CSL-GFM1608-LN08-A150	2	Optional length of DI/DO cable: 1.5m/3m/5m
CSL-GFM1604-LN04-H150	1	Wire Length Optional: 1.5m/3m/5m
CSYV-GMTNC-GMN-BNNN	1 ~ 4	Need to mark injection frequency line length3mm outer diameter, 35db/100m attenuation
CSYV-GMTNC-GMN-CNNN	1 ~ 4	Need to mark injection frequency line length5mm outer diameter, 28db/100m attenuation
CSYV-GMTNC-GMN-ENNN	1 ~ 4	Need to mark injection frequency line length7mm outer diameter, 22db/100m attenuation
CSYV-GMTNC-GMN-FNNN	1 ~ 4	Need to mark injection frequency line length8mm outer diameter, 19db/100m attenuation
CSYV-GMTNC-GMN-GNNN	1 ~ 4	Need to mark injection frequency line length10mm outer diameter, 13db/100m attenuation
ARF-C04GFN-BBZZ	1 ~ 4	High performance 8dB (circular polarized antenna
ARF-C03GFN-BB30	1 ~ 4	High Performance 6dB Circularly Polarized Antenna
ARF-L08GFN-BB30	1 ~ 4	12 dB linear polarized antenna
CSL-GFM1602-LN02-D150	1	The length of power cord is 1.5m/3m/5m.
RF-RW902	1	White card label, up to 15 meters away

- 1, The product is limited to end user installation.
- 2, End user do not remove or install the product.
- 3,The product is use for Fixed Applications.
- 4.The product is professionally installed, The installer will be responsible for ensuring that the proper antenna is employed.

FCC WARNING STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Packing list

category	number	Remarks
RF-RW202/202S	1	Main engine type two choices
CSL-GFM1604-LN04-H150	1	Network Cable Length 1.5m
CSL-GFM1602-LN02-D150	1	Power cord length 1.5m
certificate	1	Paper Qualification Certificate