

RD543 Long range reader

User Manual

一、 product description



(Appearance)

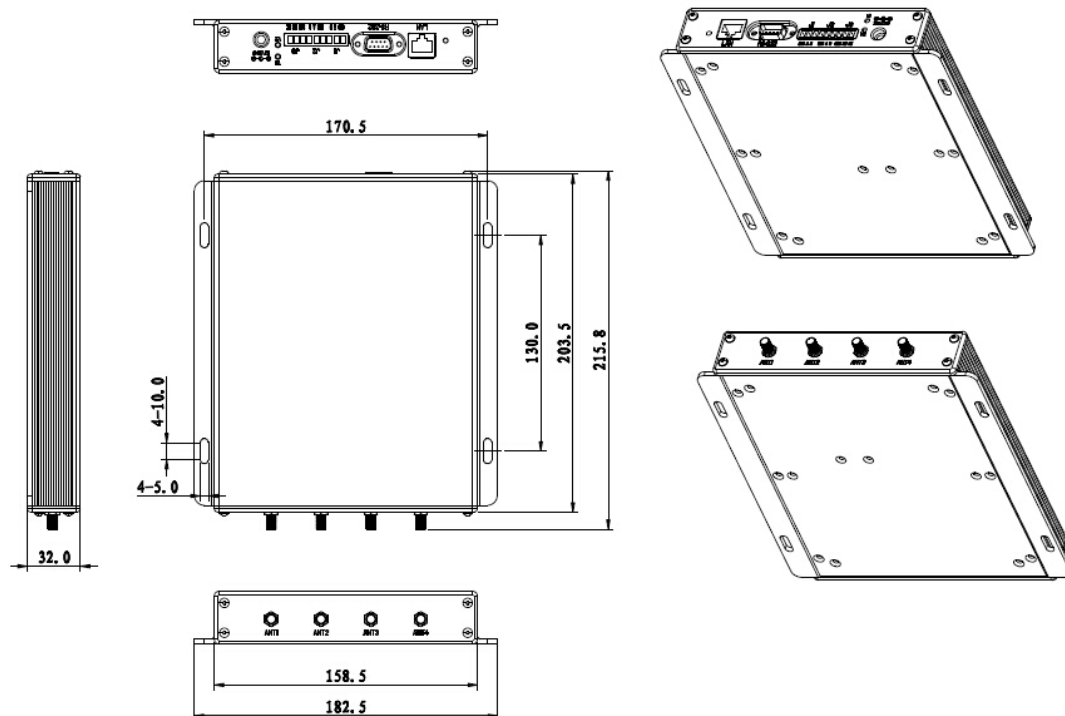
RD543 long rang tag reader supports ISO / IEC15693 compliance and ISO18000-3 standards; with fast tag identification processing capacity and excellent capacity for conflict prevention, identification tag speeds up to 60 tags / sec.

二、 Main features

- Shell autonomous design, using high-strength aluminum alloy case;
- Operating frequency is 13.56Mhz, support ISO15693 and ISO18000-3 standards;
- RF power is 1 ~ 8W adjustable;
- High performance, high stability, card rate of 60 / sec;
- Reading distance away, the most as far 90CM single antenna;
- It supports host mode, scan mode, easy integration of various applications integrator;

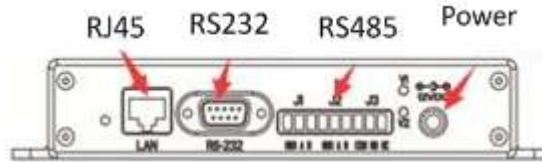
- Communication Interface: RS232; RS485; Ethernet;
- Combination multiplexer, enabling a reader connected to a plurality of antennas, thus reducing application costs;
- Integrated two-color work light, convenient for user to understand reader work status;

三、 The specification and installation dimensions



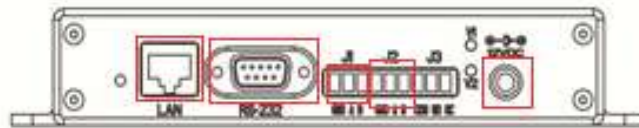
四、 Wiring description

RD543 total of nine connecting interface, and divided into three groups, J1, J2 as RS485 communication interface, J3 relay output; otherwise RS232 communication interface, Ethernet interface, power connector; the other end has four SAM antenna connection

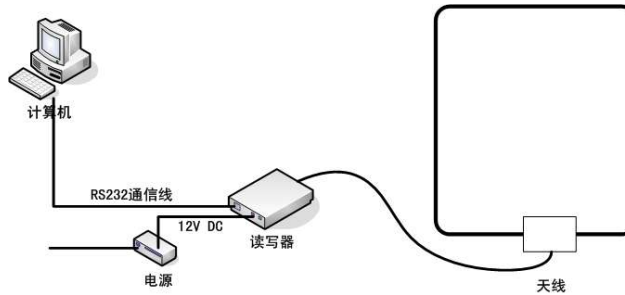


(Connector)

Before using the equipment, the first reader and antenna connected, and connect the reader to Host by RS232 or RS485 or RJ45 cable. and finally connect the power, you can start using the device. Refer to the following wiring diagram:



(Connector)



(Single antenna wiring diagram)

五、 the main parameters

Technical characteristics	
Working frequency	13.56MHZ
Supports standard	ISO/IEC 15693 和 ISO/IEC 18000-3
RF power	1-8w adjustable
Reading range	Single antenna furthest 90CM
Reading speed	About 60 tag/ sec
RF Connector	4 SMA(50Ω)
Communication connector	1 RS232、1 RS485、1 RJ45 for LAN
I/O	1 Relay output, 1 MOS output
System mode	Host mode, Scan mode
Work lights	Two-color work light
Power	12V DC
Power consumption	10W
Physical properties	
Dimensions	203.5x182.5x32MM
Weight	1.3Kg
Environmental parameters	
Operating temperature	-20 °C~60 °C
Storage temperature	-45 °C~85 °C
Relative humidity	5%-80%

六、 the main application areas

- RFID smart access
- Home school system
- Drug tracking system
- Library management system
- File Management System
- Production Line Item Tracking Management System
- Warehouse / Inventory Management System
- Jewelry retail / display Analysis and Decision System
- School / factory dormitory management system

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.