RFID Ceiling Antenna RIA17



product presentation

- This UHF RFID ceiling-mounted antenna is designed for long-range RFID item scanning with a detection range of approximately 3 meters. The device features strong group reading capability and space-saving ceiling installation. Unlike traditional UHF antennas, it integrates a built-in antenna and incorporates audio-visual alarm functionality to detect unauthorized tags. During goods entry/exit operations, the system performs intelligent recognition for efficient and convenient handling.
- Application scenarios: Supermarket stores, warehouse entrances and exits.

product features

- It is convenient and quick to connect by using a variety of external interfaces.
- Advanced collision processing algorithm to improve the recognition rate;
- Stable write operation with a maximum port output of 33dBm, high write success rate, and stable device performance.
- Supports high-throughput tag read/write operations, multi-tag recognition, tag data filtering, and RSSI (Received Signal Strength Indicator) for signal strength measurement.
- Integrated sound and light alarm, suitable for applications requiring alarm
- Compact and stylish. Integrated reader and antenna

Development convenience: Provides C# and Java development resources.

Specification Description	
Product model (order code)	**RIA17**
performance INDICATORS	
frequency range	840~960 MHz
Radio Frequency Protocol Standards	ISO 18000—6C/EPC C1G2, ISO 18000-6B
response speed	500 tags per second
read mode	Supports bulk reading
read distance	0-5 meters adjustable
Built-in antenna polarization mode	circular polarization
output power	0~33 dBm
Dimensions	575*200*45mm
Outer shell material	Acrylic + Aluminum Alloy
weight	2.5kg
working temperature	-20℃~+55℃
Alert method	acoustic and optical alarm
working temperature	<95%(+25℃)
joggle	RS232, RS485,9-24V power supply, WEGEN output, RJ45

Product Structure Diagram

