



RS-AR01

2.45 GHz Omni-Directional Active RFID Fixed Reader

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RS-AR01 2.45GHz omni-directional active RFID fixed reader operates in the 2.4-2.48GHz band, with high recognition, long-range, powerful, high reliability expandability, the reader can work under extreme indoor and outdoor environment for different applications.

Installation Diagram (Waterproof Housing)



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Function

- Long and adjustable reading distance: 0-180m.
- Fast reading speed: can reach up to 200 tags/s.
- Interface: supports RS-232, 10/100M Ethernet.
- Support different work modes: active/passive working modes, command trigger, timing trigger and other modes to satisfy different integration requirements.
- Free development resources: will provide powerful API UI for development and integration.
- Remote maintenance: parameters configuration, program upgrade and log viewer.
- Data protection: data buffer storage and automatic upload.

Application



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Specification

General Parameters	
Product Dimensions	186mm×148mm×28.9mm
Package Dimensions	320mm×226mm×133mm
Weight	Net Weight 0.65kg, Gross weight 1.65kg (stand included)
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +70°C
Humidity	20% ~ 95% (non-condensing)
Power Supply	DC 5V/3A

Performance Indexes	
Operating Frequency	ISM band 2.4-2.48GHz
Frequency Stability	±20ppm
Output Power	Max 18±1dBm
Output Flatness	±1.5dBm
Power Adjustment	16 levels adjustable, stepping 2dB
Sensitivity	better than -90dBm
Reading Distance	0-80 under open environment

External Interfaces	
Communication Interfaces	RS-232, 10/100M Ethernet
Antenna Port	Standard SMA

On Site Installation Diagram



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