



# RS-AR01A

2.45 GHz Omni-Directional Active RFID Fixed Reader

## RS-AR01A 2.45 GHz Omni-Directional Active RFID Fixed Reader



**RS-AR01A fixed RFID reader operates in the 2.45 GHz band, with high recognition, long-range, powerful, high reliability & expandability and other characteristics, can work under extreme indoor and outdoor environment for different application.**

### Function




- Long and adjustable reading distance: 0-80m
- Fast reading speed: Can reach up to 200 tags/s
- Support RS-232, 10/100M Ethernet, Wiegand 26/34 & relay output and optional interfaces including RS485, etc.
- Optional wireless transmission: 4G or WIFI
- Support different work modes: Active/passive work modes, command trigger, timing trigger and other modes optional 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

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## Specification

Electrical Parameters	
Operating Frequency	2400MHz ~ 2483.5MHz
Frequency stability	±20ppm
Output power range	-6dBm ~ +20dBm@50Ωload (default value 0dBm)
Output flatness	±1.5dBm
Sensitivity	better than -92dBm
Reading distance	0-80 under open environment
Reading speed	≥200 tags/s
Communication Interface	
Communication Interface	RS-232 interface, 10 / 100M adaptive Ethernet
Optional Interfaces	RS-485 interface, Wiegand 26/34
Wireless Expansion Module	GPRS (optional), 802.11 WIFI module(optional)
I/O Port	2- channel relays output(optional), 2- channel trigger input(optional)
Antenna port	Standard SMA
Mechanical and Electrical Properties	
Product Dimensions	189.7mm × 125.08mm × 36.74mm (without antenna)
Package dimensions	260mm × 220mm × 110mm
Weight	Net Weight 0.65kg, Gross weight 1.7kg (stand included)
Power Supply	DC 12V / 3A
Working Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +70°C
Operating Humidity	5% ~ 95% (non-condensing)
Water/Dust-proof Rating	IP67
Installation Method	Desktop or wall mounted

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