

High-Power HF RFID Reader



Key Features

Operating Frequency	HF 13.56MHz
International Standard	ISO/IEC 15693, ISO/IEC 18000-3M1
RF Output Power	1-8W (adjustable)
Communication Interface	RS232, RS485, Ethernet, USB, CAN
Fastest Read Rate	70 tags/sec
Read Range	Up to 118cm (depends on antenna)

1. Product Overview

The RD5224 high-frequency, high-power RFID split-type reader offers highly sensitive reading and writing performance, as well as a fast anti-collision algorithm. It integrates multiple communication interfaces, including Ethernet, USB, RS232, and RS485. With a reading speed of up to 70 tags per second, the device delivers stable performance and is ideal for RFID integration projects with high reading and writing demands, such as large-scale, dense tag reads and long-range reading. This product is widely used in applications such as jewelry management, poker chip management, production automation, and personnel access control.

2. Specification

2.1 Physical Characteristics

SKU	AZ-RD5224
Dimensions	308.5×207×38mm
Shell Material	Sheet Metal



2.2 Technical Parameters

Operating Frequency	13.56 MHz
Protocol	ISO/IEC 15693, ISO/IEC 18000-3M1
RF Output Power	1–8W (adjustable via configuration tool, default system setting: 4W)
Communication Interface	RS232, RS485, Ethernet, USB, CAN
Operating Modes	Host mode, scan mode (configurable via setup tool)
Fastest Read Rate	70 tags/sec
Input Voltage	12V DC
Maximum Power Consumption	35W
Power Connector	Threaded DC 2.1mm
Noise Detection	Support
Measure the Signal Strength (RSSI value)	Support
Firmware Updates via Serial Port, USB Port, and Network Port	Support
Disable RF When Idle	Support
Buffer Mode	Support, with a maximum buffer of 700UID
Triple Automatic Protection	Overheating protection Over-current protection Short-circuit protection

2.3 Antenna

Antenna Interface	SMA×24
Read Range	Up to 118cm with a single antenna (antenna dimension: 560×650mm)
Antenna Standing Wave Detection	Support

2.4 Additional Info

Operating Environment	-25 to +65°C, 5% to 95% RH, non-condensing
Storage Environment	-40 to +85°C, 5% to 95% RH, non-condensing



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