



SSD-T1 RFID Omni Eye Reader

RFID Omni Eye utilizes tag phase trajectory analysis technology. By continuously capturing changes in the tag's backscatter phase, it accurately reconstructs the tag's motion trajectory. The device can simultaneously identify the entry/exit status of multiple tags, intelligently distinguish between stationary and moving targets, and effectively avoid false detections. It is suitable for anti-theft scenarios such as retail stores and premium display cases, enabling seamless and precise electronic article surveillance.

Low False Alarm

Supports synchronization with backend data and can store up to 3000 pieces of data.

Plug & play

This device is easy to install and can be used without complex parameter adjustments for the on-site environment.

Label detection

The omni eye can fully determine the entry and exit of labels based on their phase trajectory, and can simultaneously discern whether a label is entering or exiting, without the need for traditional infrared, radar, AI algorithm cameras, or other auxiliary means of judgment.

Working method

RFID multi-transmitting and multi-receiving AI algorithm mechanism, which identifies the position and direction of tags based on their phase.

SPECIFICATIONS



Model	SSD-T1
Performance	
Frequency	840MHz ~ 960MHz, adjustable
Protocol	EPC C1G2, ISO18000-6B/C
Chipset	Impinj E710/X3M1
Sensitivity	-85
Antenna gain	7dBi
Reading range	0-2.5 meters, differ for tags
Installation height	2.2-3.5 meters
Tag Filtering	AI algorithm supported; 6 sets of EPC supported
Functional features	In & out detection; audio and visible alarm (blue and red light)
Stability	It supports the function of reporting the operating status of the device, and any internal hardware component failure will be automatically reported
Data management	It supports synchronization with backend data, can store up to 300,000 pieces of data, and can be configured with either a whitelist or blacklist alarm mode
Data resuming	Support data resuming after network disconnection
Communication Protocol	It can simultaneously support IoT communication protocols such as TCP, HTTP, and MQTT
Communication	
Communication	Ethernet or WIFI
Ethernet (Standard)	10Mbit/s, 100Mbit/s
WIFI(optional)	Frequency: 2.4G, wireless standard: 802.11 b/g/n, effective bandwidth: around 3MB/s
Physical parameters	
Dimension	216*246*41mm
Net weight	1.2kg
Material	Aluminum
Installation Method	Fixed by four screw holes
Power	
Power Supply	DC 12V/4A
Environmental parameters	
Operating temperature	-20 °C ~+60 °C
Storage temperature	-40°C ~ +85°C
Working humidity	5% to~ 95%, non-condensing