



SSD-RA series reader

The RFID UHF Integrated Reader is an industrial-grade smart reading device that integrates an RF read/write module with a high-performance antenna. Its compact all-in-one design eliminates the need for an external antenna, enabling fast and accurate identification of UHF RFID tags. The device supports multiple communication interfaces for flexible integration into access control systems, portals, workstations, production lines, and more.

All-in-One Integration, Easy Installation

The reader and antenna are highly integrated into a compact form factor, significantly reducing deployment complexity and cabling costs.

Excellent UHF Read Performance

Compliant with ISO 18000-6C (EPC C1G2) protocol. Offers long read range and high tag identification speed, working reliably with various passive UHF tags.

Communication Protocol

It can simultaneously support IoT communication protocols such as TCP, HTTP, and MQTT

SPECIFICATIONS				
				
Model	SSD-RA06L	SSD-RA07L	SSD-RA09L	SSD-RA11L
Performance				
Frequency	840MHz ~ 960MHz, adjustable			
Protocol	EPC C1G2, ISO18000-6B/C			
Chipset	Impinj E710/X3M1			
Sensitivity	-85			
Antenna gain	6dbi	7dbi	9dbi	11dbi
Polarization	Circular			
Reading Distance	0-3 meters, differ for tags	0-6 meters, differ for tags	0-10 meters, differ for tags	0-15 meters, differ for tags
Working mode	Fixed frequency/frequency hopping optional			
Functional features	It support intensive reading and writing, antenna standing wave detection function, firmware online upgrade, tag data filtering, RSSI: perceived signal strength			
RF output power (port)	33dBm±1dBm (MAX)			
Output power regulation	1 dBm step			
Channel occupied bandwidth	< 200KHz			
Frequency stability	±20ppm			
Recognizing speed	>600 times / S			
CPU Frequency	288MHz			
RAM	512KB			
Memory	16MB			
Communication				
Communication	Ethernet or RS232, optional for POE,WIFI,4G			
Ethernet (Standard)	10Mbit/s, 100Mbit/s			
RS232 (standard)	Baud rate support 115200			
WIFI(optional)	Frequency: 2.4G, wireless standard: 802.11 b/g/n, effective bandwidth: around 3MB/s			
4G(optional)	CAT1 module, supports RNDIS USB dial-up internet access, with an upstream speed of 5MB and a downstream speed of 5MB			
POE(optional)	12V 2A 24W, compliant with IEEE802.3at standard			
Physical parameters				
Dimension	130*171*135mm	210*175*143mm	270*275*158mm	370*25*143mm
Material	carbon steel+ABS+PP			
Installation Method	Fixed by four screw holes			
Power				
Power Supply	DC 12V/3A			
Environmental paramaters				
Operating temperature	-20 °C ~+60 °C			
Storage temperature	-40°C ~ +85°C			
Working humidity	5% to~ 95%, non-condensing			