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# Long Range Active Sensor Pursuit of Excellence

[R-LRAS 245]

RTag presents you the Long Range Active Sensor: R-LRAS 245.

# Long Range Active Sensor R-LRAS 245



The new generation of 2.4GHz Long Range Active Sensor achieve high performance, easy to deploy and longer reading distance. This system comes with RSSI enable.

# **Outstanding Features**

# Integrative Design



Reader and Antenna are integrated as a whole product while maintaining its small size

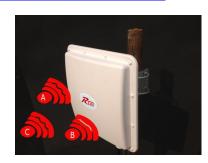
## Long Range



Long distance identification up to 656feet with strong receiving sensitivity.

\*Adjustable

#### Anti-collision



Engineered with notable anti-collision performance.

## Electronic Radiation Safe



Truncated RF Power which is no more than 1dBm with transmitting power < 2mw. Suitable for human and environmental friendly.

### ISO Compatible



Compatible with other tag protocols and improve the performance of system application.

#### Multiple Communication Interface



Provided with multiple communication interfaces like TCP/IP, RS232 and Wiegand that can be customized. Equip with self-development communication protocols and can be customized and expand according to user requirement

#### Technical Data

Operating frequency	2.4GHz~2.5GHz ISM
Identify direction	Directional
Antenna	15dBi build-in antenna
RF power range	-18.0dBm~0.0dBm( adjusted by 32 grade)
Receiving sensitivity	-90.0dBm
Operating mode	FHSS or fixed frequency(set by software)
Modulation	GFSK
Reading range	0~656feet adjustable
	RSSI reader can be adjusted less than 10m
Anti-collision	Up to 1000 tags read simultaneously
Buffer capacity	2000 tags data
Communication speed	25Kbps, 1Mbps, 2Mbps(adjustable)
Communication interface	RS-232, S-485, Ethernet, Wiegand26/34/42/50
Input and output	1 triggering input, 1 relay output
	2 relays, CAN, RSSI, ID match function, Offline function,
Optional function	Time function
Power supply	AC input: 100~240V, 50/60Hz 1.2A
	DC output: 5V/1A
Product size	225mm*225mm*100mm
Gross weight	2.78kg
Net weight	1.82kg
Working temperature	-20°C~+70°C(-4°F~+158°F)
Storage temperature	-40°C~+85°C(-40°F~+185°F)
Accessories	Power adapter, Power cable, RS-232 cable, Mounting, bracket
Working status indication	Buzzer