

WE-RA210 Product Specification

1 brief introduction

WE-RA210 is an IEEE 802.15.4a positioning base station designed by Hainan Shidian Technology Co., Ltd. It can support two positioning methods, ToF/TDoA. The product is mainly used in long-distance, high-precision positioning, and can be widely used in factory, judicial, hospital and other scenarios for personnel positioning and warehouse material positioning.

The product uses wired backhaul and connects to the computing engine via a switch.

The product is powered by wide voltage DC 12 ~ 48 V, or can be powered by network port, supports standard IEEE 802.3af/at PoE power supply, and can be centrally managed by PoE switch.

The product supports a temperature range of -20 to 65 °C and can be installed either as a ceiling-mounted or wall-mounted unit.

2 leading feature

- IEEE 802.15.4a UWB
- IEEE 802.3 af/at PoE
- built-in antenna

3 product picture



4 size of product

project	description	
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summary

product name	WE-RA210	
Related regulations	IEEE 802.15.4a	
	IEEE 802.3af/at	
joggle	DC power port	
	RJ45 10/100M LAN	
key	Default key	
input voltage	DC 12V ~ 48V	
average power consumption	< 5W	
way to install	Ceiling and Wall	
LED	PWR	Green: Power on and stay on
	LAN	The green wired data transmission indicator is flashing.
	UWB	Green, work flashing

UWB radio frequency specifications

operating frequency band	3.24GHz ~ 3.74GHz (channel1)	
	3.77GHz ~ 4.24GHz (channel2)	
	6.24GHz ~ 6.74GHz (channel5)	
physical rate	110 Kbps	
	850 Kbps	

	6.8 Mbps
Output power (25°C)	-41dBm/MHz (typical), -24dBm/MHz (maximum)
channel width	500MHz
antenna gain	1dBi

Software specifications

UWB work pattern	TDofA
	TOF
time lock	wireless time synchronization
Configuration	Server configuration
	Web configuration
configuration management	Web-based user management interface (remote/local management)
	TFTP/HTTP software upgrade
networking protocol	DHCP client
uplink interface	Interface B

physical specification

Size (mm)	190*190*60 (excluding the bracket)
Weight (g)	468

environmental specification

temperature	Operating temperature: -20°C~65°C
	Storage temperature: -30°C to 80°C

humidity	Working humidity: 0% ~ 90% no condensation
RoHs	compatible

5 Delivery content

name	Brief specification	quantity	number of order
WE-RA210	UWB positioning base station	1	AA01UA210000
support	Ceiling-mounted bracket	1	/

Attachment (not included in the delivery scope. Please contact Shidian Business in advance if required)

name	Brief specification	number of order
power adapter	12V,1.5A Power adapter, black	AD0201120000