

UA-231 Datasheet

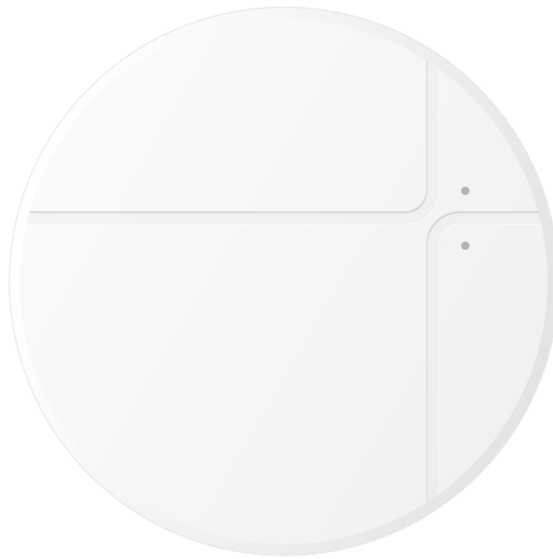
1 Description

UA-231 is small size location anchor based on UWB technology, supports ToF & TDOA . Ceiling installation for hospital, Judicial and any other scenarios.

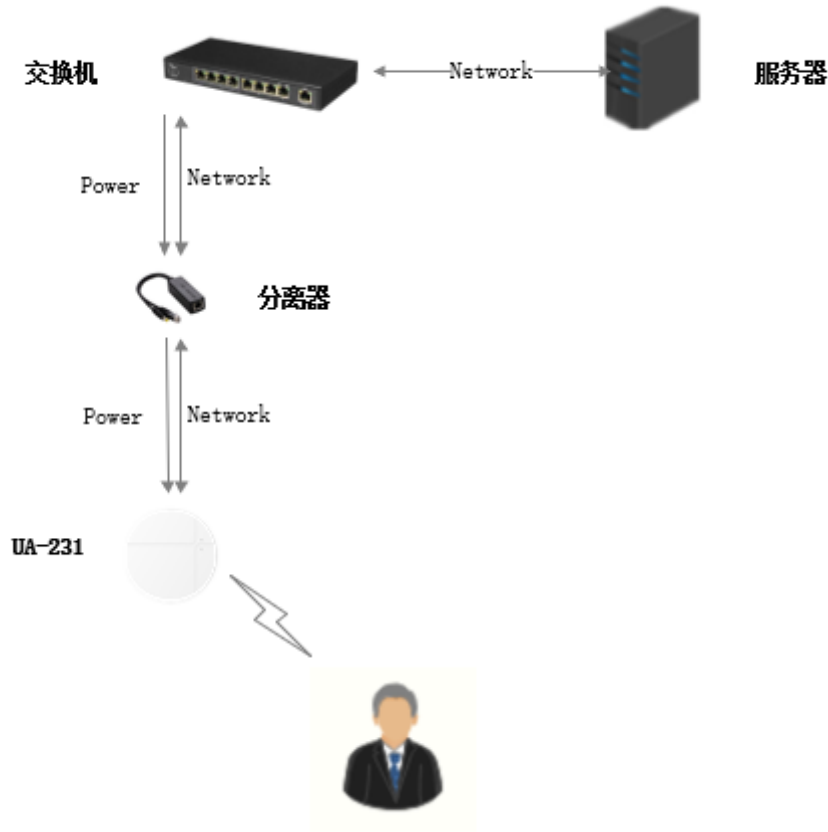
2 Main features

- Small size
- IEEE 802.15.4a UWB
- UWB Omni-antenna build in

3 Product photo



4 Application structure



5 Specification

Item	Description	
Outline		
Name	UA-231	
Standard	IEEE 802.15.4a	
Interface	DC 2.1	
	RJ45	
Power supply	DC 12V ~ 48V	
	PTE 12V ~ 48V	
Average power waste	< 2W	
	Power supply (up)	Red

Light	RF (down)	UWB working: green light twinkle
Installation	Ceiling	

RF(UWB)

Working frequency	3.25GHz ~ 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)	-27dBm/MHz
Channel frequency width	500MHz
Antenna gain	1 dBi

Software

Location algorithm	ToF/TDoA
Time SYNC	Wireless time SYNC
Configuration	Server
method	WEB
Management	Web based user management interface (remote management / local management)
	TFTP/HTTP software upgrading
Network protocol	DHCP client
Upper interface	Interface B

Physical specification

Size	$\varphi 103.5 \times 45\text{mm}$
Weight	117.5g

Environment

Temperature	Working: $-20^{\circ}\text{C} \sim 65^{\circ}\text{C}$
	Storage: $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$
Humidity	Working: 0% ~ 90% no condensation
	Storage: 0% ~ 90% no condensation
RoHs	Comply with