UA-210-O Outdoor Base Station

Introduction

CyraSecurity UA-210-O is an outdoor positioning base station designed based on ultra-wideband (UWB) technology. By deploying this base station, UWB signal coverage in the target area is achieved. It supports ToF/TDoA positioning mode and has the advantages of long coverage distance and high positioning accuracy. The product's high protection level, wide temperature design and reliable lightning protection design can be widely used in factories, electric power, construction sites, Data Center and other fields.

The device supports the IEEE 802.3 af/at standard and can be networked and powered through a PoE switch. The device supports two installation methods: wall hanging and pole mounting.

Main Features

- Based on IEEE 802.15.4a UWB
 - Nanosecond-level pulse signals achieve centimeter-level positioning accuracy
- TDMA Technology

Achieve high concurrent tag access, the number of tag access
 in TOF positioning mode > 150@1Hz, TDoA mode > 950@1Hz

• UWB Air Interface Encryption (AIE)

- Support air interface encryption to prevent illegal device access

Wired Access Authentication and Encryption

Through base station access control, the legitimacy of access to the base station is ensured; through encryption, the security of data transmission between the base station and the engine is secured

• Seamless Roaming

- Tags can be smoothly switched between different base stations

Product Base Station



UA-210-O Outdoor positioning base station

Product Specifications

Item	Description			
Overview				
Product Model	UA-210-O			
Related	IEEE 802.15.4a			
Specifications	IEEE 802.3 af/at			
Interface	RJ45 × 1			
шенасе	N type × 1(UWB)			
Input Voltage	IEEE 802.3 af/at			
Maximum Power	- EVA			
Consumption	< 5W			
Maximum Power	Wall hanging or pole			
Consumption				
Light Display Status	PWR	Green, always on when		
		working		
	UWB	Green, flashing when		
	OVVD	UWB is working		
RF Specifications (UWB)				
	3.77GHz~4.24GHz (channel2)			
Speed Pate	110 kbps			
Speed Rate	850 kbps			

	6.8 Mbps			
Output Power	-41.3dBm/MHz (Typical Value)			
(25°C)	-13dBm/MHz (Maximal Value)			
Channel	500MHz			
Bandwidth	500MHZ			
Antenna Gain	4.5 dBi			
Software Specifications				
UWB Mode	TDoA			
	ToF			
Time	Wireless Time Synchronization			
Synchronization				
Configuration	Server Configuration			
Method	Web UI configuration			
Configuration	Web board Hear Management Interfere			
Management	Web-based User Management Interface			
Uplink Interface	B interface (Private)			
Physical Specifications				
Dimensions	190×190×60			
(mm)	190^190^00			
Weight (grams)	650 (without packaging)			
Environmental Specifications				

	Working	-40°C~75°C		
Temperature	Temperature			
remperature	Storage	-40°C~85°C		
	Temperature			
Temperature	Humidity	5%~95% With no		
		condensation		
Waterproof and	IP67			
Dustproof	11-07			
Flame Retardant	111 04 1/ 0			
Grade	UL94 V-0			
RoHs	Compatible			

Delivery Content

Name	Description	Quantity	Part number
UA-210-O	Outdoor Base Station	1	AA01UA210O00
Wireless	Fiberglass antenna	1	Nil
	L-shaped bracket and		
Mounting	J-shaped hoop		NEL
Bracket	combined mounting	1	Nil
	bracket		