# **UA-210 Indoor Base**Station

#### Introduction

CyraSecurity UA-210 is an indoor 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 ceiling-mounted installation of the product can be widely used in personnel and material positioning in factories, courts, hospitals, data center and other scenarios.

#### **Main Features**

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

#### Built-In Antenna

- Built-in omnidirectional antenna, coverage radius is greater
   than 35m
- 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 Indoor positioning base station

## **Product Specifications**

Item	Description				
Overview					
Product Model	UA-210				
Related	IEEE 802.15.4a				
Specifications	IEEE 802.3 af/at				
Interface	RJ45 × 1				
шенасе	DC Power Supply Interface × 1				
Input Voltage	IEEE 802.3 af/at				
Input Voltage	Rated Voltage DC 48V				
Maximum Power	~ F\M				
Consumption	< 5W				
Installation Method	Ceiling				
	PWR	Green, always on when			
Light Display	FVVIX	working			
Status	UWB	Green, flashing when			
	OVVD	UWB is working			
RF Specifications (UWB)					
Working	3.24GHz~3.74GHz (channel1)				
Working Fraguency Band	3.77GHz~4.24GHz (channel2)				
Frequency Band	6.24GHz~6.74GHz (channel5)				

	110 kbps			
Speed Rate	850 kbps			
	6.8 Mbps			
Output Power	- 41.3dBm/MHz (Typical Value)			
(25°C)	- 13dBm/MHz (Maximal Value)			
Channel	FOOM! I-			
Bandwidth	500MHz			
Antenna Gain	1dBi			
Software Specifications				
UWB Mode	TDoA			
	ToF			
<b>T</b> '	Wireless Time Synchronization			
Time	Wireless Time Cynobronization			
Synchronization	Wireless Time Synchronization			
	Wireless Time Synchronization  Server Configuration			
Synchronization				
Synchronization  Configuration	Server Configuration  Web UI configuration			
Synchronization  Configuration  Method	Server Configuration			
Synchronization  Configuration  Method  Configuration	Server Configuration  Web UI configuration  Web-based User Management Interface			
Synchronization  Configuration  Method  Configuration  Management	Server Configuration  Web UI configuration			
Synchronization  Configuration  Method  Configuration  Management  Network	Server Configuration  Web UI configuration  Web-based User Management Interface			
Synchronization  Configuration  Method  Configuration  Management  Network  Protocol	Server Configuration  Web UI configuration  Web-based User Management Interface  DHCP Client  B interface (Private)			
Synchronization  Configuration  Method  Configuration  Management  Network  Protocol  Uplink Interface	Server Configuration  Web UI configuration  Web-based User Management Interface  DHCP Client  B interface (Private)			

(mm)					
Weight (grams)	468 (without packaging)				
Environmental Specifications					
Temperature	Working	-20°C~75°C			
	Temperature				
	Storage	-40°C~85°C			
	Temperature				
Temperature	Humidity	5%~95% With no			
		condensation			
Flame Retardant	111 04 1/ 0				
Grade	UL94 V-0				

## **Delivery Content**

RoHs

Name Description		Quantity	Part number
UA-210	Indoor Base Station	1	AA01UA210000
Mounting	Ceiling Mounting	1	Nil
Bracket	Bracket	'	

Compatible