

BA-10 Datasheet

Nanjing Woxu Communication Technology Co., Ltd.

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1 Introduction

BA-10 is a Bluetooth AoA positioning anchor developed by Nanjing Woxu Communication Technology Co., Ltd. It adopts the BLE 5.1 specification to achieve accurate angle sampling through array antennas, and then accurate two-dimensional and three-dimensional coordinates can be obtained through the server. The product is mainly targeted at personnel positioning in hospitals, nursing homes, museums, pavilion, and enterprise visitor management.

BA-10 uses standard IEEE 802.3af/at PoE power supply, which can be centrally managed through a PoE switch, and can also be powered through a DC interface. The power supply voltage is DC 24~48V.

The installation of the equipment is simple and convenient, and can be installed by ceiling mounting.

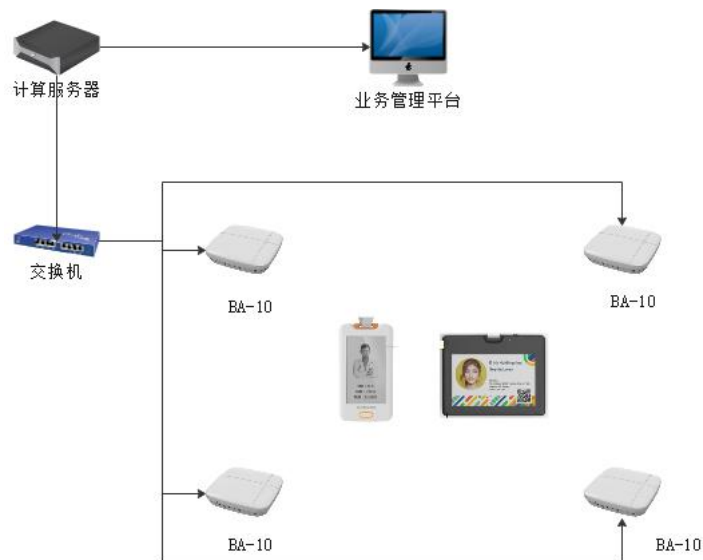
2 Main feature

- Support Bluetooth5.1
- IP67
- IEEE 802.3af/at PoE

3 Product picture



4 Application architecture



5 Specification

Item	Description
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Overview

Model	BA-10
Interface	RJ45 × 1

	DC interface × 1 (Two-core aviation plug)	
Input voltage	Output voltage	
	IEEE 802.3af/at PoE	
Average power consumption	5W	
Installation method	Ceiling mounted	
LED	PWR (left)	Normal power supply: light on
	Red	No power supply: off
	Status	Work normally: light on
	(right)	Unable to connect to the server: blink, 2 seconds apart
Green		

RF Spec. (BLE)_

Working frequency	2.4GHz~2.4835GHz
Physical rate	1Mbps
Output rate (25°C)	6dBm (Max)
Antenna gain	0 dBi

Software Spec.

BLE working mode	BLE AOA
Configuration method	Server configuration Web configuration
Configuration	Web

management	Interface B
Network protocol	UDP
Uplink interface	Interface B

Physical Spec.

Size (mm)	230*230*60 (Without bracket)
	230*230*74.5 (With bracket)
Weight (gram)	920±10

Environment Spec.

Temperature	Working temperature -40°C ~ 85°C
	Storage temperature -25°C ~ 70°C
Humidity	Working humidity: 0% ~ 90% non-condensing
IP rate	IP67
RoHs	Compatible

6 Delivery content

Model	Specification	Quantity	Order number
BA-10	BLE AoA positioning anchor	1	AA01BA100000
Bracket	Ceiling mounting bracket, white, with matching screws	1	/

Accessories (Not included in the scope of delivery, please contact Woxu Business in advance if you need it)

Model	Specification	Order number
Power adapter	48V, 1.25A	AD0201480100