

Blueiot

BA3000-p

Product Overview

BA3000-p is an indoor AOA high-precision positioning product launched by Blueiot for industrial and commercial scenarios. It has centimeter-level positioning capability and meets the core requirements of real-time accurate positioning and tracking, intelligent scheduling, safety control, and process management for personnel, vehicles, and materials in positioning scenarios.

BA3000-p indoor positioning anchor is equipped with Blueiot self-developed hardware platform, integrating multipath suppression algorithm and intelligent environment adaptation technology, providing customers with centimeter-level real-time positioning, multi-dimensional data visualization and intelligent boundary-crossing alarm. Its low power consumption enables it to become the ideal choice for intelligent medical, intelligent manufacturing, warehousing and logistics and other high-precision positioning needs of the industry.

Product Outfit



Product Features

1. High-precision Positioning

- a. Blueiot AOA high-precision positioning algorithm
- b. Positioning accuracy of 10cm level
- c. Coverage of more than 60m
- d. Fearless of interference, stable trajectory

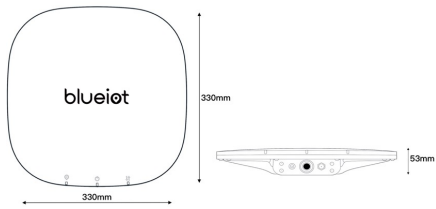
2. Convenient Construction

- a. Aviation plug with high waterproof ability, convenient construction alignment
- b. Daisy-chained dual network port serial link, support for PoE/DC power supply
- c. Supports ceiling and sidewall mounting, flexible location, convenient construction

3. Strong Compatibility

- a. Compatible with iOS/Android/HarmonyOS system
- b. Supports APP/mini program, strong application extensibility
- c. Compatible with BLE4.0 and above devices

Technical Specifications

Hardware Specifications	
Dimensions	330mm × 330mm × 53mm 
Weight	2290g
Installation	Ceiling/Side wall mounting, with a maximum installation height of 20m
Network Interface	RJ45
Interface Format	Aviation plug; Daisy-chained one in one out, dual network port serial link, DC power port

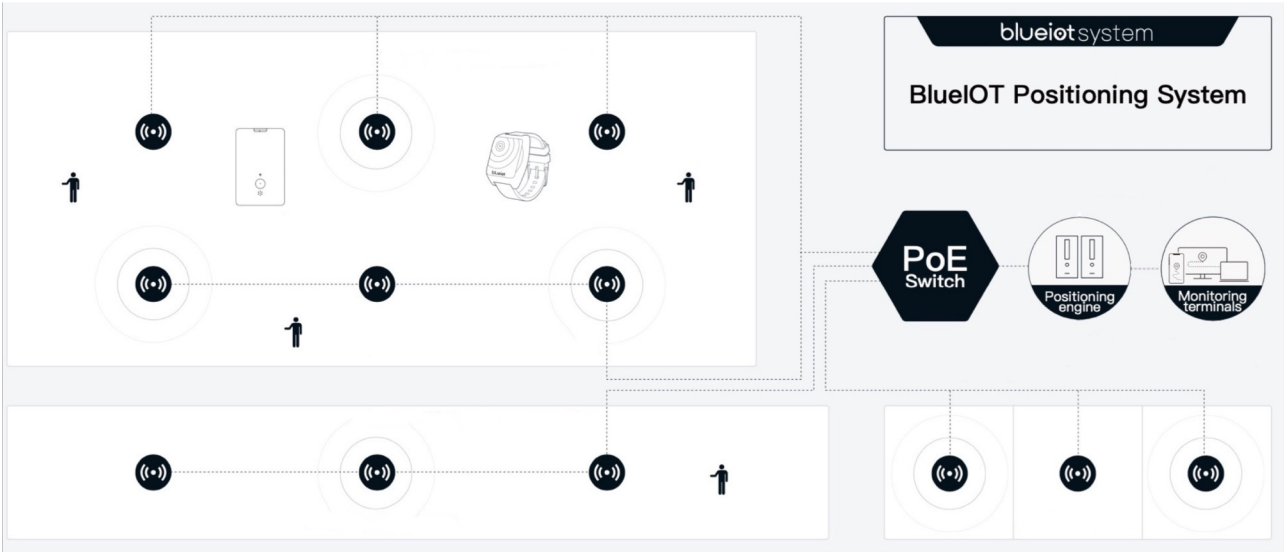
Power Supply	DC 12V ~ 24V, IEEE 802.3af PoE 48V
Rated Power	3W
Positioning Diameter	≥60m
Compatibility	Compatible with BLE4.0 and above devices
AOA Specifications	
Antenna Type	Built-in omnidirectional array antenna
Radio Frequency Band	2.4GHz ~ 2.4835GHz
Positioning Accuracy	10cm level*1
Data Protocol	Blueiot AOA protocol
Features	Supporting Bluetooth IOT data transmission, reporting tag information and data
Operating Environment	
Protection Grade	IP68
Operating Temperature	-40°C ~ 80°C
Storage Temperature	-40°C ~ 85°C
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	5% ~ 95% non-condensing
Certifications	
Certifications	CE, RoHS

Note:

*1: Under open and interference-free conditions (e.g. no obstruction, no reflection, stable signal), the accuracy can reach 10cm.

Application Topology

The tag sends Bluetooth AOA data, the anchor receives the data and analyzes it, then sends it to the solving server through the network for location solving. And accurate positioning information will be presented on the terminal.



Positioning-based Applications

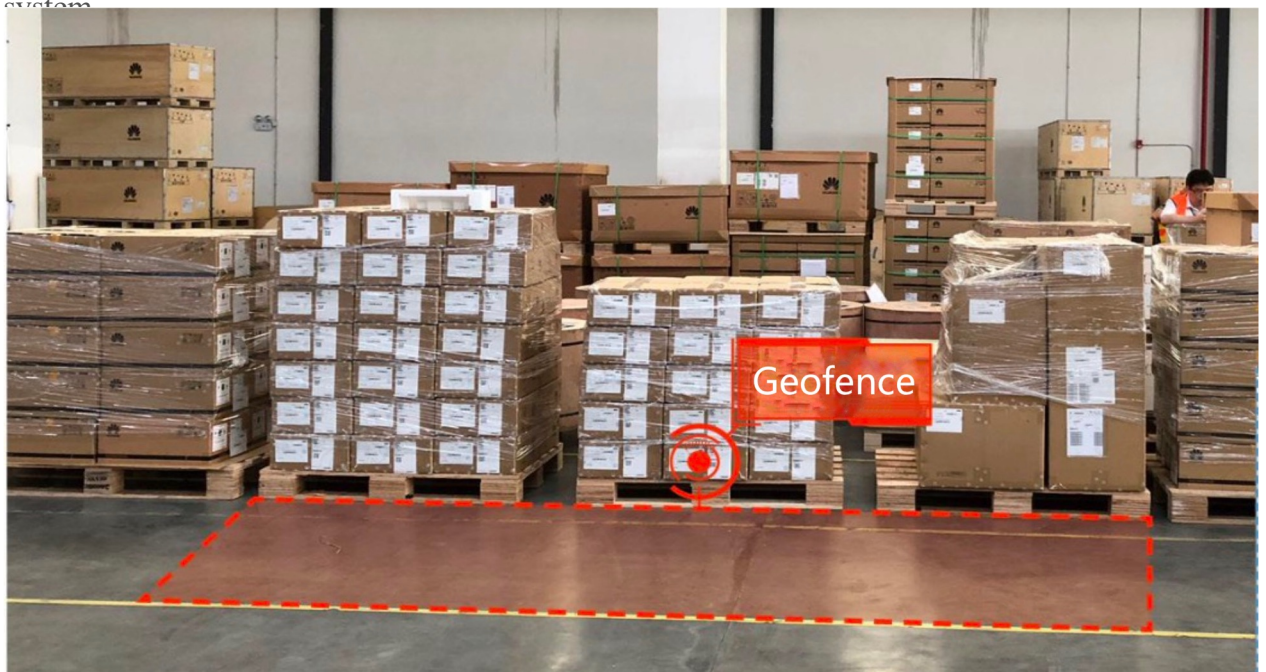
Visualized Management Screen

It can display the real-time location of all tags on a 2D map, a tilted photographic map, or a 3D model map, which provides managers with an overall view. Through supervision of the large screen, managers can track the real-time understanding of the position of a person or object. Moreover, when an alarm is triggered, visual positioning facilitates immediate understanding of the incident and its status.



Geofencing

The system supports flexible drawing of geofences, providing multi-mode alarm functions such as in/out fence alarm, SOS alarm, tamper alarm, disappearance alarm, regional overcrowding/staying alarm, etc., and supports dual alarms both on the tag system and monitoring system.



Trajectory Retracing and Analysis

Supports tracing backpast tag positioning data, displaying it in trajectory diagram, and associating it with alarms and monitoring videos occurring in the track. Supports multi-speed playback, one-touch full trajectory display and other functions to achieve efficient and accurate tracking and analysis.



For more positioning applications, such as navigation and positioning in transportation hubs, collection of physical signs in hospital wards, tracking of special patients, etc., please contact Blueiot for more information about the industry solutions.

More Information

If you want to get more related information, please don't hesitate to click our website:

<https://www.blueiot.com>

Or you can contact us through:

Official customer service hotline: 010-82170550 Enterprise user service mail: global@blueiot.com

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