

Overview

HPE Aruba Networking Beacons

BLE-Powered Asset Tracking

HPE Aruba Networking Beacons (or 'tags') are a key component of the Networking Location Services product line and asset tracking solution. When used in conjunction with the HPE Aruba Networking Meridian platform, they enable businesses to track valuable physical assets throughout their organizations - indoor and outdoor.

Based on Bluetooth Low Energy (BLE) technology, also known as Bluetooth 4.0, Tags provide location data for each tagged asset within the range of BLE-enabled access points. By leveraging an organizations BLE-enabled Wi-Fi network, Tags do not require a dedicated network of readers or observers.

Their design and size make them attractive in healthcare, retail, warehousing and more.

Key Features

- Utilizes prevalent BLE asset tracking technology
 - A modern Wi-Fi installation provides necessary coverage
 - BLE-enabled APs only require a firmware upgrade to support asset tracking
 - Solution scalable to thousands of assets
 - 2-year maintenance free battery
 - True location on map, not just general proximity
 - Tags designed to endure stringent requirements, including medical use
 - Multiple attachment options support a variety of use cases and asset types
-

Standard Features

Design Characteristics

Small, low-power wireless transmitters, Tags broadcast 2.4-GHz radio signals at regular intervals which are heard by BLE-enabled access points which act as observers and provide the sensory network. Tracking information is then sent to the Meridian cloud-based platform where mapping of the location allows for each asset to be viewed in its true location.

The form factor of Tags make them easy to attach to valued assets - either with double-sided tape or via optional Tag carriers. A sealed enclosed and 2-year battery ensures that no maintenance is required.

Software Features

The Tags Configuration App ensures that items can be easily tagged regardless of where they sit. The iOS based app allows for staff to associate photos, descriptions and labels to each asset to populate the asset tracking database. Tags can also be moved between assets and re-labeled without bringing them to a central location.

A complete SDK for both iOS and Android platforms allows for the flexibility for users to quickly locate items from anywhere within a facility using common mobile devices, which eliminates the need for proprietary hardware. The use of the Meridian AppMaker solution provides a low-cost tracking app for those that do not have an existing app or asset management solution.

Optional wayfinding capabilities can also be used to provide staff members with turn-by-turn directions to the asset being looked for.



Standard Features

BTO Models

Location Beacons		
Rule #	Description	SKU
	HPE Aruba Networking LS-BT20-5 5-pack of Second Generation Battery Powered Bluetooth Beacons	JX984A
	HPE Aruba Networking LS-BT20-50 50-pack of Second Generation Battery Powered Bluetooth Beacons	JX985A
Asset Tracking Beacons		
2	HPE Aruba Networking AT-BT10-50 50-pack of Battery Powered Asset Tracking Bluetooth Beacons	JX987A
Notes:	OCA Only Model Selection Form - HPE Offering > HPE Aruba Networking > Location Services > Beacon Hardware and Meridian Platform > Mobile Engagement and Location Services	

Accessories

Beacon Mount Kits		
Std (Min 0 // max 99) User Selection (min 0 // max 99)		
Rule #	Description	SKU
1	HPE Aruba Networking LS-BT1-MNT-50 50-pack of Indoor Mounting Brackets for Battery Powered Beacon	JW145A
1, 3	HPE Aruba Networking LS-BT1-NEMA Outdoor Mounting Bracket for Battery Powered Beacon	JW144A
3	HPE Aruba Networking Meridian AT-BT10 Snap Mount for AT-BT10 Tag 25 pack	JZ113A
3	HPE Aruba Networking Meridian AT-BT10 Zip Strap Mount for AT-BT10 Tag 25 pack	JZ114A
Configuration Rules		
Rules	Description	SKU
1	This Mount is compatible with the following Beacons: HPE Aruba Networking LS-BT20-5 5-pack of Second Generation Battery Powered Bluetooth Beacons	JX984A
	HPE Aruba Networking LS-BT20-50 50-pack of Second Generation Battery Powered Bluetooth Beacons	JX985A
3	This Mount is compatible with the following Beacon: HPE Aruba Networking AT-BT10-50 50-pack of Battery Powered Asset Tracking Bluetooth Beacons	JX987A



Technical Specifications

Supported Products for Asset Tracking

Product	Integrated BLE Radio	Support with USB Beacon
207	X	
210, 220, 203H		X
300,310,320,325	X	
360 (outdoor AP)	X	
HPE Aruba Networking Sensor	X	

Power

- One non-replaceable coin cell battery
- Estimated Yearly Power Consumption (mA-h): 45.42
- Estimated battery life (in months): 48

Range

- Maximum signal range depends on the physical environment.
- Beacons operate on the same type of radio waves as 2.4-GHz Wi-Fi routers. As a result, the signal can be diffracted, interfered or absorbed by materials in the -space such as metal, wood or water.

Mounting

- Included: High-strength indoor/outdoor 3M adhesive for direct mounting
- Optional: NEMA 66-rated outdoor case
- Optional: Snap-on mounting bracket
- Optional: Zip-strap mount

Mechanical

- 34mm x 11mm
- Weight 10g (0.35oz)

Environmental

- Operating temperature: 0C to 50C
- Humidity 5%RH to 93%RH non-condensing
- Storage and Transport: -10C to 60C

Regulatory

- FCC/Industry of Canada
- CE Marked
- R&TTE Directive 1995/5/EC
- Low Voltage Directive 72/23/EEC
- For country specific regulatory information and approvals, please see your HPE Aruba Networking representative.

Regulatory Model Number

- ARBT0102



Summary of Changes

Date	Version History	Action	Description of Change
16-Dec-2024	Version 3	Changed	Configuration Information section was updated.
19-Feb-2024	Version 2	Changed	Series name was updated.
05-Jun-2017	Version 1	Created	Document creation



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