

Bluetooth and Zigbee expansion radio

Extend HPE Aruba Networking indoor APs to better support IoT and beaconing



Key features

- Add BLE/Zigbee radio capabilities to any HPE Aruba Networking indoor AP with a USB interface
- Simple installation via USB
- No licenses required

The proliferation of IoT devices at the edge creates a new set of challenges for IT since IoT devices use different connectivity types and communication protocols, often requiring vendor-specific gateways to manage devices and collect data.

HPE Aruba Networking APs can act as an IoT platform to help enterprises simplify their IoT deployments while protecting their existing investments. In addition to two or more radios for Wi-Fi, almost all HPE Aruba Networking access points include an integrated 2.4 GHz radio that supports Bluetooth and 802.15.4 (for Zigbee and other protocols). For APs that do not come with this integrated capability or if two radios are needed, the Bluetooth and Zigbee Expansion Radio makes it easy to augment existing capabilities.

Simple installation

With standards-based connectivity, simply connect the expansion radio into an available USB port on the HPE Aruba Networking AP and you're ready to go. This eliminates the need for proprietary modules or complex installation.

Investment protection

The Bluetooth and Zigbee Expansion Radio allows you to add new capabilities while continuing to use existing HPE Aruba Networking 3xx Series APs or HPE Aruba Networking 503 Series APs. No additional licenses are required.

Wi-Fi 6 and Wi-Fi 6E can be implemented during existing cycles to provide faster speeds, greater security, and support for higher density environments.

Broad IoT support

The Expansion Radio builds on the IoT capabilities within HPE Aruba Networking ESP. Enterprises can reduce IoT security risk by applying the Zero Trust Security principles and dynamic segmentation to automate device identification, policy application, and enforcement thereby eliminating manual, error-prone processes. The IoT Operations Dashboard provides greater visibility and leverages AI-powered Client Insights to detect 95% of all devices.

IoT partners

HPE Aruba Networking partners enable the use of a wide range of services such as indoor wayfinding, asset tracking, electronic shelf labels, electronic door locks and more. You can find a full list of partners on our [website](#).

Technical specifications

Physical

Interface	USB Type A
Dimensions (L x W x H)	37.2mm x 35mm x 9.9mm (1.46" x 1.37" x 0.39")
Weight	8.5 g (0.30 oz)

Radio

	Transmit power	Receive sensitivity
Zigbee (802.15.4)	Up to 7dBm	-99dBm

Antenna	Integrated vertically polarized omnidirectional antenna with ~30°0 downtilt and peak gain of 3.3 dBi (for ceiling mounted APs)
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Regulatory model number:	ARBTUSBZB1
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Environmental range

Maximum power consumption	250mW
MTBF	12M hours / 1370 years (at 25°C / 77°F)
Operating temperature	-20°C to +60°C (-2°F to +140°F)
Frequency band	2.4 GHz

Ordering information

SKU	Description
R2X45A	HPE Aruba Networking AP-USB-ZB-1 Indoor AP BLE and Zigbee USB Dongle
R2Y09A	HPE Aruba Networking AP-USB-ZB-10 10-Pack Indoor AP BLE and Zigbee USB Dongle
R2Y10A	HPE Aruba Networking AP-USB-ZB-50 50-Pack Indoor AP BLE and Zigbee USB Dongle

Note: The AP-USB-ZB is supported on HPE Aruba Networking APs only.

Make the right purchase decision.
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