

DATA SHEET

BLUETOOTH AND ZIGBEE EXPANSION RADIO

Extend Aruba indoor APs to better support IoT and beaconing

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.

Aruba 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 Aruba access points include an integrated 2.4GHz 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 Aruba 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 Aruba 3xx Series APs or Aruba 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 Aruba ESP. Enterprises can reduce IoT security risk by applying the Zero Trust Security principles and dynamic



KEY FEATURES

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

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° downtilt and peak gain of 3.3 dBi (for ceiling mounted APs)	
Regulatory model number:	ARBTUSBZB1	
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	2.4GHz	
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 Aruba APs only.