

DATA SHEET

IOT EXPANSION RADIO

Transform Wi-Fi 5 into IoT platforms with Zigbee support

In order to simplify the deployment of IoT solutions in office and manufacturing environments, today's Wi-Fi network is evolving into an IoT platform that serves as a logical center of convergence for connected things.

WHAT IS AN IOT PLATFORM?

IoT platforms deliver connectivity and visibility for mobile devices, sensors, and other connected equipment. Enabling existing access points (APs) to provide these capabilities helps enterprises simplify deployment and protect their investments.

THE ARUBA ADVANTAGE

While each of the Aruba **Wi-Fi 6** (802.11ax) access points include Bluetooth 5 and a 2.4GHz 802.15.4 IoT radio to support the Zigbee wireless protocol, previous Wi-Fi 5 (802.11ac) APs have only supported Bluetooth. Now, a simple to use expansion radio makes it easy to turn Aruba Wi-Fi 5 APs (802.11ac Wave 1 and Wave 2 families) into universal IoT platforms as well. ArubaOS 8.6+ is required.

SIMPLE INSTALLATION

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

INVESTMENT PROTECTION

It's now easy to gain additional value from existing wireless investments. Wi-Fi 6 can be implemented where needed while existing refresh cycles on Wi-Fi 5 infrastructure can be maintained. And with no licenses required – Zigbee is easy to use without adding an overlay network.



KEY FEATURES

- Allows Aruba Wi-Fi 5 APs to support Zigbee in minutes
- Simple installation via USB
- No licenses required

IOT PARTNERS ARE KEY

Aruba partners with an extensive ecosystem of IoT partners to enable the use of services such as indoor wayfinding, asset tracking, and electronic shelf label (ESL) management without additional overlays. See the current list of partners on Aruba's Internet of Things [program webpage](#).

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)	

Environmental range

Maximum power consumption	250mW
MTBF	12,011,292 hours (25°C)
Operating temperature	-20°C to +60°C (-2°F to +140°F)
Frequency Band	2.4GHz

Ordering information

SKU	Description
R2X45A	Aruba AP-USB-ZB External USB based Dongle with Zigbee support
R2Y09A	Aruba AP-USB-ZB 10-pk External USB based Dongle with Zigbee support
R2Y10A	Aruba AP-USB-ZB 50-pk External USB based Dongle with Zigbee support

- The AP-USB-ZB is supported on Aruba APs only.