The BT-100 device is designed to be used with Analytics and Location Engine (ALE) and improve location monitoring. The key features are:

- Better proximity performance than WiFi
- Operates as a stand-alone device
- Low power consumption
- Only three channels (37, 38 and 39) for advertisement for sending beacons

Package Contents

- BT-100 device
- Mylar tab
- Mounting bracket

BT-100

The following figure show the top view of a BT-100 device

Figure 1 *BT-100– Top View*

The following figure shows the bottom view of the BT-100 device:

Figure 2 *BT-100– Bottom View*

Wall Mounting Installation

The mounting brackets is used for wall mounting a BT-100.

Required Tools and Equipment

The following tools and equipment are required for installing BT-100 on a wall:

- Mounting Bracket (included in the kit)
- Wall Mounting Screws: The type of screw depends on the installation surface (not included in the kit)
- Suitable Screwdrivers for all screw types (not included in the kit)

Installation Steps

To install a BT-100 device on a wall:

1. After you have chosen a mounting location, mark the location on the wall where you intend to make a mounting hole.

NOTE: The mounting location must be at least 12 feet above the floor.

2. Align the mounting bracket hole with the hole you created in the wall .
3. Use an appropriate screw to secure the BT-100.

4. Align the 2 key slot style holes in the back of the unit against the 2 studs on the mounting bracket. Pull the unit down until it is locked in.

Activation

To activate the BT-100 device, pull out the tab that extends out of the bottom of the device.

Product Specifications

Physical

- Device dimensions (HxWxL): 16 mm x 47 mm x 47 mm

Electrical

- Power Supply: Two standard coin battery (approximately 1460 days)
- Coin battery capacity: 2000 mAh
- Voltage: 3 V

RF Performance

- Tx = -23 dBm to 0 dBm (23 dB dynamic range)
- Rx sensitivity = Approximately -94 dBm (1 Mbps)
- Working Frequency range: 2450 ± 50 MHz
- Operation temperature: 0 °C to 50 °C

Safety and Regulatory Compliance

Aruba Networks provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Aruba access points. This document can be viewed or downloaded from the following location: www.arubanetworks.com/safety_addendum

Regulatory Model Names

The regulatory model name applicable to the BT-100 device is ARBT0100.

NOTE: RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body for 2.4 GHz and 5 GHz operations. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. When operated in the 5.15 to 5.25 GHz frequency range, this device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

If this equipment does cause interference, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

Complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet apareil numerique de la classe B respecte toutes les exigencies du Reglement sur le materiel brouilleur du Canada.

WARNING: Changes or modifications that are not explicitly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Canada

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

Proper Disposal of Aruba Equipment

Waste of Electrical and Electronic Equipment

Aruba products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2002/96EC on Waste of Electrical and Electronic Equipment (WEEE).

Bluetooth Low Energy Device
Hardware Guide

Contacting Aruba Networks

Web Support	
Main Site	http://www.arubanetworks.com
Support Site	https://support.arubanetworks.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephones	arubanetworks.com/support-services/aruba-support-program/contact-support/
Software Licensing Site	licensing.arubanetworks.com/login.php
Wireless Security Incident Response Team (WSIRT)	arubanetworks.com/support/wsirt.php
Support Email Addresses	
Americas and APAC	support@arubanetworks.com
EMEA	emea.support@arubanetworks.com
Americas and APAC Support Email	support@arubanetworks.com
WSIRT Email Please email details of any security problem found in an Aruba product.	wsirt@arubanetworks.com