A3 Wi-Fi / BLE

1 – Button Asset Tag

Wi-Fi / BLE Tag for Asset Tracking

A3 Wi-Fi / BLE
Flange /Key Fob

A3 Wi-Fi / BLE

AiRISTA's A3 asset tag is designed to monitor assets within a Wi-Fi / BLE network environment. The A3 Wi-Fi / BLE asset tag provides options to generate alerts based on vibration.
This tag allows the user to develop on an open system without using proprietary infrastructure and seamlessly integrates with AiRISTA's RTLS Location Engine.

Industry-Leading Location Accuracy

With a small yet rugged water-resistant form factor, the A3 Wi-Fi / BLE asset tag can be affixed to virtually any piece of equipment or fixture indoors or outdoors for enterprise-wide tracking. AiRISTA's RTLS platform leverages asset data to process definable to automate processes and drive greater efficiency.

AiRISTA Wi-Fi / BLE asset tags are rugged and can be used for a variety of applications across multiple industries such as healthcare, logistics, hospitality and manufacturing.

Benefits

- Combines use cases for location and choke point detection
- Impact sensing for crash/damage detection
- Motion sensing wakes tag from sleep
- Build business process workflows with AiRISTA's Unified Vision Solution software combining location, condition sensing and button push.

Features

- BLE 4.2, 5.0 compliant
- Wi-Fi 802.11b/g/n compliant (Encryption: WEP, WPA, WPA2)
- Long-life replaceable battery
- Multiple ways to attach tags to assets
- Accelerometer "wake on motion" optimizes battery life (optional)
- General purpose tactile call button
- Visual indicators through multiple LEDs (based on model)
- Over-the-air programming and configuration capabilities
- Cisco Systems wireless protocol support for over-the-air management, telemetry, and firmware updates
- Optional flange

Wi-Fi Radio

Supported Wi-Fi Networks: 802.11 b/g/n
Sleep Mode Maximum Leakage Current: <10ua
TX 802.11b, CCK 11 Mbps, Pout = +19 dBm
TX 802.11g, OFDM 54 Mbps, Pout = +17 dBm
TX 802.11n, MCS7, Pout = +17 dBm
Rx 802.11b, 1024 bytes packet length, -80 dBm
Rx 802.11g, 1024 bytes packet length, -70 dBm
Rx 802.11n, 1024 bytes packet length, -65 dBm
FCC, Canada, ETSI 2.4 - 2.4835 GHz
Japan 2.471 -2.497 GHz
Layer 2 Network Support: CCX, Blink
Security: WEP, WPA2-PSK
Supported Data Rates, 1, 6,11,54,72 Mbps

BLE Radio

Blue-tooth Low Energy (BLE) Radio
BLE 4.1, 4.2 and 5.0 Compliant
RX BLE: 6mA
TX BLE: 6mA
TX BLE max Out Put Power: 5dBm

Electrical Interface

Replaceable 1200 mAH, 3.0V Lithium Battery
Antenna: Omni-directional antenna
Configuration: Over-the-air remote configuration

Battery Life

Up to 5 years of battery life depending on the beacon rate and configuration

Accelerometer

- 3-axis "nano" accelerometer
- Ultra-low-power consumption (down to 2 uA) 2g/±4g/8g/16g dynamically selectable full scale 6D/4D orientation detection
- Free-fall detection
- Motion detection
- Embedded self-test
- 10000 g high shock survivability

Frequency band

Channels 1-11: North America
Channels 1-13: Global
Channels 1-14: Japan

Environment

Operating Temperature: 32 to 122 °F / 0 to 50 °C
Storage Temperature: 50 to 70 °F / 10 to 25 °C

Typical Operating Range

Line of Sight:
Wi-Fi: 330 ft (100 m) @11Mbits/s @19dB power
BLE: Up to 150 ft (45 m)* @4dB power
Obstructions:
Wi-Fi: 150 ft (45 m) @11Mbits/s @19dB power
BLE: Up to 75 ft (25 m)* @4dB power

Physical

Dimensions: 52 x 32 x 13 mm /2.17 x 1.26 x .51 in
Weight: < 38 g / 1.34 oz
Form Factor: ABS/ Polycarbonate enclosure (IP64, NEMA 4X)

Certifications

FCC: Part 15 (US and Canada)
CE Mark (European Union)
Cisco Support: CCX & LTX protocol support

Part Number (Identical to T4 tags)

A3.B (BLE)   A3.W (WiFi)   A3.LTX
A3.WB (BLE & Wi-Fi)
A3.Flange (Add W / B for BLE &/or Wi-Fi)
A3.BATT (A3 Replacement Battery)

Warranty

One Year Warranty

*Specifications subject to change without prior notice.

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