

Rugged WiFi/BLE/GPS Tag for Tracking Assets

The AiRISTA A65 asset tag is ideally suited for tracking assets in harsh or outdoor environments using your existing Wi-Fi network. The A65 provides location intelligence as part of AiRISTA's end to end RTLS platform. Wi-Fi and BLE are standard with an option for GPS functionality.



Industry-Leading Location Accuracy

Using standard 802.11b/g/n 2.4 GHz Wi-Fi, BLE and GPS networks, AiRISTA tags are ideal for a variety of applications across multiple industries such as healthcare, logistics, and manufacturing. The optional GPS receiver allows tracking of assets in surrounding outdoor areas and uses the greater distances available from BLE 5.0 for backhaul. The A65 is IP65 rated for dust and water protection allowing it to withstand tough indoor and outdoor applications.

Flexible Interface

The dust- and splash-proof A65 asset tag offers a choice of covers. The A65 is available with or without flange. This feature provides users with great flexibility to leverage a tag form factor that is right for specific use. The design also allows users to mount the AiRISTA A65 on various object types.

Benefits

- Ideal for outdoor and harsh environments
- Optional GPS capability for outdoor location tracking
- Energy conserving BLE 5.0 transmits over greater distances

Features

- BLE 4.2 & 5.0 compliant
- Wi-Fi 802.11 compliant (encryption: WEP, WPA, WPA2)
- Replaceable, long-life battery
- Optional telemetry and sensor expansion connectors available
- IP65 rated protects from water and dust
- Multiple attachment methods
- Motion sensor allows "wake on activity" to optimize battery life
- Over-the-air programming and configuration capabilities
- Over-the-air firmware upgrade capability
- Cisco CCX compatible and support for layer 2 network protocol

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, 5.0 Compliant
RX BLE: 6mA
TX BLE: 6mA
TX BLE max Out Put Power: 5dBm

Battery Life

Replaceable Battery
2 year battery life, depending on the beacon rate

User Interface

Two red/green signal LEDs

Warranty

One Year Warranty

Certifications

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

Frequency band

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

Environment

Operating Temperature: 50 to 104 °F / 10 to 41 °C
Storage Temperature: 40 to 115 °F / 5 to 46 °C
Humidity: 95 % non-condensing, relative humidity
Protection: splash proof enclosure

Typical Operating Range

Line of Sight:

Wi-Fi: Up to 135m (440 ft)

BLE: Up to 45m (150 ft)

Obstructions:

Wi-Fi: Up to 45m (150 ft)

BLE: Up to 25m (75 ft)

Physical

Dimensions:

With flange: 95 x 59 x 35 mm / 3.7 x 2.3 x 1.4 in

Without flange: 65 x 50 x 35mm /2.6 x 2 x 1.4 in

Weight:

With flange (without battery): < 138 g / 4.9 oz

Without flange (without battery): < 118 g / 4.2 oz

Form Factor: ABS/ Polycarbonate enclosure (IP65, NEMA 4X)

Part Number

A65.W: Wi-Fi only, no Flange

A65.W.B: Wi-Fi and BLE, no Flange

A65.W.B.GPS: Wi-Fi, BLE and GPS no Flange

A65.W.F: Wi-Fi only, with Flange

A65.W.B.F Wi-Fi, BLE, with Flange

A65.W.B.GPS.F Wi-Fi, BLE and GPS with Flange

(Identical to AF.T65 tags)

*Specifications subject to change without prior notice.

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