

Wearable Wi-Fi / BLE Wrist Tags for Location Tracking



The AiRISTA W4n Wi-Fi / BLE wearable Personnel or Patient tag enables real-time location visibility of a person's location enterprise-wide, with reliable room and sub-room accuracy.

The AiRISTA W4n is worn comfortably on a person's wrist using a detachable wristband with a lock-in mechanism, which makes it easy to put on and prevents removal of the band while in use. The tag is also water-resistant, allowing users to comfortably wash during use and enabling easy cleaning after use.

The AiRISTA W4n includes an LED for display of signaling events, and a built-in vibration unit to alert the tag wearer. The tag also contains a call button that may be pressed to request help. By activating the vibration and LED functions over the wireless (802.11) network, a staff member can call patients over the air using AiRISTA's B4 badge tags or using the AiRISTA UVS web-based messaging software application. Patients may also acknowledge or cancel help requests by pressing a software-configurable button on the AiRISTA W4n.

The AiRISTA W4n uses a rechargeable, long life lithium polymer battery and can be charged with a single charger or by using a multi-charger that can be daisy-chained with other multi-chargers, wall-mounted, or placed on flat surfaces.

Benefits

- Comfortable, secure wrist band
- Keep patients & staff safe
- Ideal as a hotel staff panic button solution or nurse alert
- Rechargeable battery

Features

- BLE 4.2 & 5.0 compliant
- Full two-way alerting over standard Wi-Fi networks
- Tag is secure when in use and wristbands are easily detached when not in use.
- Comfortable, watch-like design
- Water -resistant (badge and wristband)
- Active RFID technology enables 1m/3ft real-time location visibility (IR receiver for room and sub-room level accuracy)
- Re-chargeable long life lithium polymer battery
- Single or multi-charger with multiple mounting options (re-charge time less than two hours)

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

DC Power: Rechargeable Lithium Polymer
Battery Capacity: 400mAh
Rated cycle life: >300 cycles with 80% of nominal capacity
Interface Antenna: Omni-directional antenna
Battery life: up to 500h @ 15s interval in blink mode

Battery Life

2 year battery life, depending on the beacon rate.
The W4n tag's low power radio and intelligent motion sensor can extend battery life. It also alerts the user when the battery is low.

User Interface

Call button
One red/green LED
Vibration alarm
3D accelerometer for motion detection

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: -40 to 140 °F / -40 to 60 °C
Humidity: 95 % non-condensing, relative humidity
Protection: dust and splash proof enclosure

Typical Operating Range

Line of Sight:

330 ft/100 m @11Mbit/s, 500ft/150m @2Mbit/s*

Obstructions:

140 ft/40 m @11Mbit/s, 200 ft/60 m @2Mbit/s

Physical

Dimensions: 51.5 x 50 x 17.5 mm / 2 x 1.9 x 0.7 in
Weight: 1.7 oz. / 48 g
Water-resistant enabling easy cleaning

Certifications

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

Part Number

Wearable Tag: W4n
Multi-charger for 10 W4n badges: W4n-MC
Single USB Charging Cable: W4n-USB
US Adapter for Cables: Tag.Adapt.US (or Intl)
Single Charging Cradle & Adapter: W4
Long Wristband: W4n.Wristband

Warranty

One Year Warranty

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