

## Wearable Wi-Fi Tags for Location Tracking

The AiRISTA Flow W4n Wi-Fi tag enables real-time location visibility of a person's exact location enterprise-wide, with reliable room and sub-room accuracy. The AiRISTA Flow 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 Flow 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 FLOW's B4 badge tags or using the AiRISTA Flow

Vision™ web-based messaging software application. Patients may also acknowledge or cancel help requests by pressing a software-configurable button on the AiRISTA Flow W4n.

The AiRISTA Flow W4n uses a rechargeable, long life lithium polymer battery and can be charged with a single charger. Alternately, AiRISTA Flow W4s can be powered using a multi-charger that can be daisy-chained with other multi-chargers, wall-mounted, or placed on flat surfaces.



### Features

- 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
- Waterproof (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 multicharger with multiple mounting options (re-charge time less than two hours)

## Radio / Wi-Fi Radio

Supported Wi-Fi Networks: 802.11 b/g/n  
Sleep Mode Maximum Leakage Current:  
<10ua RX Wi-Fi with CCK/DSSS (1, 2, 5, 11  
Mbps/s): 35mA RX Wi-Fi with OFDM (6,  
9...54 Mbps/s): 37mA  
TX Wi-Fi at +12 dBm: 125 mA @ 14 dBm into  
antenna Max Wi-Fi Output Power: 12 dBm  
FCC, Canada, ETSI 2.4 - 2.4835 GHz  
Japan 2.471 -2.497 GHz  
Network Protocol: UDP/IP, addressing DHCP  
or static Security: WEP 40/104bit  
(equals 64/128bit), WPA2-PSK

## BLE Radio

Bluetooth Low Energy (BLE) Radio BLE 4.1  
Compliant RX BLE: 6mA  
TX BLE: 6mA  
TX BLE max OutPut Power: 5dBm

## Electrical Interface

DC Power: Rechargeable Lithium Polymer  
battery  
Capacity: 530mAh  
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

## User Interface

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

## Certifications

FCC Part 15 (US), IC (Canada), CE Mark  
(European Union)  
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 waterproof enclosure  
Typical Operating Range  
Open Space: 330ft/100m @11Mb,  
500ft/150m @2Mb Closed Office:  
140ft/40m @11Mb, 200ft/60m @2Mb

## Physical

Dimensions: 51.5 x 50 x 17.5mm / 2 x 1.9 x  
0.7in Weight 31g / 1.09 oz  
Fully waterproof enabling easy cleaning.

Specifications subject to change without  
prior notice.