



Accuware Wi-Fi Tags

Accuware Wi-Fi tags enable people and assets tracking when used with a Wi-Fi-based real-time locating system (RTLS) such as Wi-Fi Location Monitor.

What they are

- Wi-Fi tags consist of a radio transmitter and battery pack housed in a durable enclosure.
- Tags can be attached to objects or carried by people so that their presence can be detected and their movements followed by Wi-Fi based locating systems.
- Tag's radio transmits using the IEEE 802.11b Wireless Fidelity (Wi-Fi) protocol. Each tag is identified by its unique 48-bit MAC address.
- Accuware carries one model: **compact**.



How they work

- Tags periodically transmit a signal that can be detected by Accuware **nodes**. The tags' MAC address uniquely identifies them.
- A Wi-Fi RTLS such as Wi-Fi Location Monitor can estimate their location by trilateration based on the received signal strength.
- A tag's transmit interval or "beaconing rate" is set at the factory.
- Compact tags have a push-button. When pressed, it sends a special signal that the server may interpret as an alert.
- Tags are fitted with vibration sensors that indicate when the tag is in motion.
- Tags automatically send out low-battery alerts

How they are used

- Compact tags may be carried by people or attached to objects, enabling real-time locating and tracking. .
- The push-button in compact tags can be used to trigger actions when pressed. For example, for a patient to request help, an emergency room technician to summon assistance, or an operator to initiate a maintenance work order for mobile equipment that malfunctions.





Compact Tag Features

Mechanical

Size	83mm X 38mm X 8mm
Weight	26g
Material	ABS
Color	Dark Grey or custom (*)
Operating Temp.	-20°C ~ +60°C

Electrical

Power	Rechargeable battery
Working Voltage	3.1V - 3.7V
Battery Capacity	300mAh
Battery Life	2 months (**)
Tx Power	50mW
Frequency	2.4GHz
Channel	6 (*)
Protocol	IEEE 802.11b, transmit only
Tx Interval	2 seconds (*)
Tx Rate	1 Mb/s
Low Power Alarm	< 3.44V

Functional

Vibration sensor	Signals when device is in motion
USB port	USB mini 8-pin. To recharge the battery when connected to USB charger or computer USB port. NOTE: This cable is not included.
Alarm	Signals when the button is pressed.
LED	Red when button is pressed Flashing red when battery power is low Green while battery is charging Turns off when battery is fully charged

(*) can be set at the factory

(**) battery life can be increased by lowering the TX frequency at the factory.

Pricing

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