



## WISEMOTE™ RTLS TAG PRODUCT FAMILY

WiseMote™ Wi-Fi devices for RTLS and sensor network applications operate in 2.4 and 5 GHz bands, provide enterprise security and improved battery life. The WiseMote™ WM1-20 (2.4 GHz) and WM1-50 (2.4/5 GHz) 802.11n Wi-Fi RTLS tag devices work with any third-party hardware and software RTLS infrastructure. The companion wireless configurator – WMO – enables easy configuration of individual tags or groups of tags. Operation in the 5 GHz band provides for close adherence to designed battery life compared to crowded 2.4 GHz channels. The tags can be programmed to operate in a variety of methods, supporting multiple location tracking and update mechanisms. In Cisco Compatible Extensions (CCX) mode, they offer Cisco CCX compliant beaconing with configurable patterns, telemetry and alarm notifications. In Wi-Fi associated mode, they periodically connect to access points and communicate sensor and channel data to a server. In other beaconing modes, the devices support standard Wi-Fi clients with simple tag identification software to locate and identify assets. The tags and configurator along with sample applications and APIs for integrating with locationing engines as well as applications are available in an SDK.

### Main Features

- Industry's first dual-band RTLS tag
- Multi-mode operation
- CCX compatible beaconing
- Proprietary beaconing for custom solutions
- Associated mode for locationing with standard infrastructure
- Enterprise security modes
- Motion detector
- Fully wireless configurability
- Over-the-air Firmware Upgrade capable
- Battery life of over 5 years with 5-minute beaconing

### Applications

- Asset tracking in logistics and warehousing
- Medical applications including patient tracking
- People tracking for safety and security
- Monitoring of transport conditions using sensors
- Tracking of goods, materials and containers in shipping yards
- Inventory and equipment security

## Specifications

Network Support	IEEE 802.11a/b/g/n
Data Rates	1 Mbps to 65 Mbps
Configuration	Through WM0 Wireless Configurator
Battery type for tags	2/3 AA 1200 mAh
Dimensions	
WM1-20:	47 x 49 x 21 mm
WM1-50:	47 x 49 x 21 mm
WM0:	120 x 84 x 33 mm
Operating Temperature	-40°C to +85°C (Industrial grade)

## Resources

The WiSeMote™ tags are available in the form of an SDK that includes four tags, a configurator, and software. The software includes source code for sample applications and configuration utility.

## Configuration

The WM0 Configurator enables the wireless configuration of tags brought to its vicinity. It communicates to a controlling PC via a USB link, and put tags near it into configuration mode through low frequency signaling. Two-way configuration information is then exchanged via Wi-Fi packets without the need of connecting to a Wi-Fi infrastructure.

## DIAGRAM



Tag

WM0

## WiSeMote™

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