

Find-iT PRODUCT BRIEF



RS9110-N-11-61

WI-FI RTLS TAG

The RS9110-N-11-61 RTLS Tag is a member of the Find-iT™ family, which comprises modules and ready-to-use tags for locating assets using WLAN infrastructure. The RS9110-N-11-61 Tag is a complete IEEE 802.11bgn client device that forms the core of RTLS solutions over WLAN. The tag is certified for the Cisco Compliant Extensions program's Tag specifications v1. The tag includes a motion sensor which it uses to decide the frequency of packet transmissions. It can be configured to transmit multiple packets (upto 16) on multiple WLAN channels at a selectable transmission rate and power. The frequency of packet transmission in static and mobile modes is also programmable.



Main Features

- Ultra low power 802.11b/g/n with RTLS support
- Compliant to 802.11b/g and single stream draft 802.11n
- Certified for the Cisco Compliant Extensions program's Tag specifications v1
- Includes an ultra low power microcontroller for different applications
- Real-time clock for wake-up scheduling and time-stamping
- Operates directly off a 2.4 V to 3.6 V battery
- Configuration through wireless and UART interface
- Support for different frequencies of packet transmissions during static and mobile modes
- Fully functional software for programmable configurations
- Configurable parameters include burst count, channels, transmission rate and power
- Integrated antenna, frequency reference, and low-frequency clock
- Ultra low power operation, providing 5-year battery life

Applications

- Wi-Fi RFID tags
- Real Time Location Systems
- Asset Tracking
- Medical Applications including Patient Monitoring and Tracking etc.

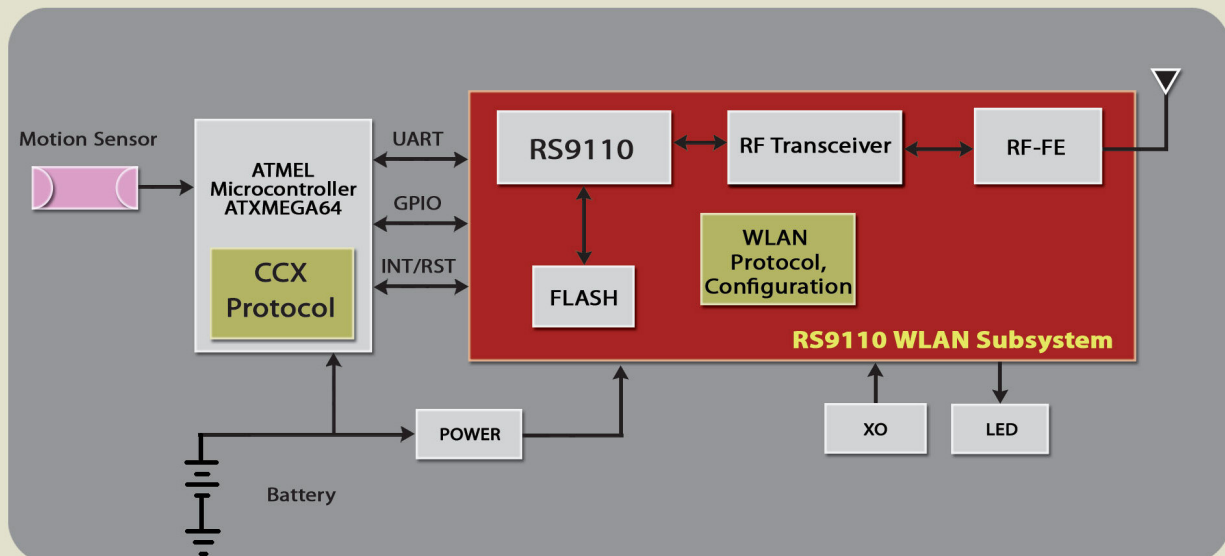
Specifications

Network Standard Support	IEEE 802.11b/g/n
Data Rates	802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Frequency Band	2.412 - 2.484 GHz (Low Band)
Modulation Techniques	OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS
Configuration Modes	UART, Wireless
Operating Temperature	Industrial Grade -40°C to +85°C
Supply Voltage	3.1 - 3.6 V battery
Dimensions	3.29" x 2.42"

Configuration Package

Redpine Signals provides a comprehensive software package that includes a Windows XP GUI based configuration utility and firmware upgrade capability, along with detailed documentation. A Super Tag can also be purchased separately to configure multiple tags wirelessly at the same time.

RS9110-N-11-61 Wi-Fi Tag System Diagram



RS9110-N-11-61

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