

NS.eRFquake

RTLS . Tracking mobiles and fixed assets with motion detection.

eRFquake is a wireless sensor that attaches to your equipments to react to motion, whether you are monitoring fixed device or mobile device. The eRFquake adapts to both scenarios, providing location information of mobile equipment and alarms when located in certain areas, for asset management.

eRFquake offers a reliable solution for mission-critical applications involving the motion and location monitoring in industry, healthcare, asset management, and many other types of tracking uses. Above all, eRFquake offers reliable wireless connections with ultra-long battery life of several years depending on use.



KEY ADVANTAGES

- ✓ Life expectancy:
Motion-based behavior allows the sensor to save energy by only becoming active when relevant. Number of tracked assets is highly increased:
Since information is transmitted only when relevant, the problem of collisions occurring on systems using periodical beacons is avoided.
- ✓ Automatic power management to allow short and long range communications.
- ✓ Mobile within multiple and large networks.
- ✓ Customizable:
Embedded contacts can be configured to trigger outputs, such as a wheel lock solenoid, buzzer...

Wireless features

- Optimized Wavenis wireless technology for applications requiring ultra low-power consumption, long range, and reliability in hard-to-reach places,
Radio range up to 1 km in line of sight outdoors, up to 200 meters indoors,
- Resistant to RF interference – sophisticated data processing: FHSS, data interleaving, BCH (31,21) mechanisms,
- Build flexible wireless mesh networks unlimited in size
- 2-way links with mobile and fixed network control points
- Programming via direct wireless or remote network connection
- Point-to-point, point-to-multipoint (broadcast, polling), repeater modes
- Tree, star, and mesh network topologies
- License-free 433/868/915MHz ISM bands,
- EN300-220-1, FCC15-249, & FCC15-247 compliant
- EMC compliant with EN 300-683

General features

- Autonomous battery powered unit with wireless motion detection interface,
- Up to 3 GPIOs
- Programmable internal data logging, measurement period, alarm thresholds,
- On-demand data transmission,
- Date-time management with day/night mode
- Multi-year battery life depending on use
- Immediate alert transmission upon detection of low battery, and threshold conditions
- Easy installation
- System wake-up
- Dimensions: 12 x 4 x 3 cm
- (4.7 x 1.6 x 1.2 in.)
- Weight: 110 to 160 g (4 to 5.6 oz)

Companion Tools

- ✓ NS.eRFquake.GUI
- ✓ NS.Plugin.Wavenis

Specifications	
Hardware	TI MSP430 I49RF12
Range	1 kilometer
Battery	3.6 Volts 3AH