ARC Asset Tag

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The ARC Active RFID Asset Tag is designed to transmit a unique identification number and sensor data periodically.

Various sensor options include motion, accelerometer, tap detection, double tap detection, free fall detection, temperature measurement and tamper and removal detection. All sensor data is included in each transmission.

Various peripherals include a vibration motor and acoustic sounder.
Configuration mode allows for enabling or disabling peripherals. This mode also allows control of different parameters of peripherals and sensors.

A high data rate of 1Mbps alows for a very short on air time, long battery life and a large amount of simultaneously operating devices in the same area, thus eliminating congestion.

The device operates from a small coin cell as a power source and includes a battery status reporting feature. This enables the user to accurately predict and schedule a service of the easily replaceable lithium battery cell.

The ARC Asset Tag contains a special tamper and removal detection sensor. On tamper or removal detection the tag activates the acoustic sounder and also sends emergency signals to readers. The tag is mounted onto an asset with an earth magnet. Other mounting options are also available on request.

The device is capable of reliable performance within a harsh operating environment typically encountered in commercial environments.

Bi-directional co n allows for both tag to tag or more commonly tag to reader scenarios.

Durable and light weight. Wide operating temperature and humidity range are some of the benefits of the product design.

This is a microprocessor based unit using FLASH and EEPROM re-programmable technology that allows for flexible factory configuration.

Key Features

- Unique identification number.
- Motion detection.
- Increased transmission rate when motion detected.
- Three axis accelerometer with tap, double tap and free fall detection.
- Acoustic sounder.
- Miniature vibration motor.
- Tamper and removal detection.
- Ambient Temperature measurement sensor.
- Beacon location information included in each transmission.

All peripherals and sensors are optional (Acoustic sounder, Motion Sensor, Accelerometer, Vibration Motor, Tamper and removal detection.)

- Ultra low power consumption.
- Radiates maximum output power permit ted by international SRD (Short Range Device) standards.
- Pseudo random transmission times and extremely short on air time to minimize channel congestion.
- Bi-directional communication.
- Configurable transmit power.
- Excellent antenna performance.
- Tag orientation, last beacons detected, battery status and sensor data included in each transmission.
- Moisture and water resistant.
- ISM Band.