



ARC Tag

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The ARC Active RFID 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 and temperature measurement. All sensor data is included in each transmission.

Various peripherals include a vibration motor, LED 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 allows 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 device is capable of reliable performance within a harsh operating environment typically encountered in commercial environments.

An advanced custom designed antenna ensures reliable performance when close to metal or a human body.

The device is encapsulated in a custom designed enclosure with various mounting options to choose from. A wrist trap option is also available for personal wearing of the tag. The enclosure is available in a variety of colours.



Bi-directional communication 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.
- LED.
- Miniature vibration motor.
- Ambient Temperature measurement sensor.
- Beacon location information included in each transmission.
- Ultra low power consumption.
- Radiates maximum output power permitted 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.
- Range unaffected by objects the device is attached to.
- Tag orientation, last beacon detected, battery status and sensor data included in each transmission.
- Various mounting options.
- Wrist strap available.
- Child track mode.
- Impervious to water, steam and hydraulic oil ingress.
- ISM Band.

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