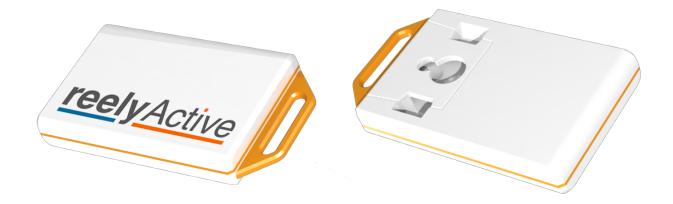
# **RA-T411 Datasheet**

## **Description**

The RA-T411 is a compact, cost-effective and versatile active RFID tag which transmits a unique identifier at a configurable period. Typical battery life is one year at one transmission per second.

### **Device Photos**



### **Enclosure Features**

Removable clip enables the following mounting options:

- Keyring
- Nail, screw or suction cup via keyhole
- Tie-wrap or strap



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## **Technical Specifications**

#### **Radio**

Frequency: 915MHz ISM band

Modulation: GFSK (Gaussian Frequency Shift Keying)

Sensitivity: -93dBm Bitrate: 250kbps

Receive-capable: Yes

Transmit-capable: Yes, with configurable power

Range

Open field: >50 m (typical)
Indoors: >10 m (typical)

Compliance

Canada: IC (10707A-RAT41102) USA: FCC (QASRA-T411-02)

**Antenna** 

Type: Internal ceramic antenna

Radiation pattern: Omnidirectional

Peak gain: -1dBi

**Security and Authentication** 

Unique identifier: 28-bit plus 36-bit implicit OUI (EUI-64)

Authentication: Challenge-response

Encryption: AES

Configuration

ID transmission: Periodic, configurable from  $0\rightarrow\infty$  in 30ms increments

Factory default: 1 second



Sensor transmission: Periodic, configurable as every n<sup>th</sup> transmission

Factory default: 60 seconds

#### Sensors

Temperature: -40C to +85C in 0.5C increments, ±4C uncalibrated

Battery voltage: Level and low battery detection LQI: Radio link quality indication

### **Physical**

Dimensions (LxWxH): 49mm x 32mm x 8.25mm (excluding keyring)

Weight: 6 g (PCB and battery only)

Enclosure material: ABS plastic
Clip material: ABS plastic
Ring material: ABS plastic

Enclosure colours: White Keyring colours: Orange

Custom colours: Available with minimum order quantity

#### **Power**

Battery type: Single CR2032 lithium coin cell, 3V

Typical battery life: One year @ one transmission per second

#### **Environmental**

Temperature: -40C to +85C (Industrial grade)
Outdoor-capable: Yes, except for water immersion

