



Tarts Wireless Asset Sensor

General Description

Tarts wireless asset sensors can be attached to assets and alert if the asset is removed from range of the gateway.


Features

- Small size is ideal for embedded applications.
- Low power, powered by single CR2032 coin cell.

Principle of Operation

The Tarts wireless asset sensor outputs an RF signal at set intervals to be received by the gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape). There is no sensor specific data contained in the RF transmission, the presence or absence of the sensors RF transmission is the data that will be tracked.

Technical Specifications

Datum Definition	Type: 66 Name: ASSET RawValue: 1 FormattedValue: PRESENT
Supply Voltage	2.0 - 3.6 VDC * (ships with CR2032 - 3.0 V coin cell battery and battery clip)
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Antenna	4" wire antenna
Device Range	250 - 300 ft. non-line-of-sight (actual range may vary depending on environment.)
Dimensions	1 inch (W) x 1 inch (L)
Certifications	 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware cannot withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible to lose programmed memory.

For more product information or to place an order visit us on the web at www.tartssensors.com.

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