

RT-300 RTLS Tag

The Cognosos RT-300 RTLS Tag is a battery powered device that senses when an asset is moved and transmits its location into the RadioCloud network. With its modular design and smart beacon software, the RT-300 provides an economical solution to a wide variety of asset tracking problems for healthcare, retail and manufacturing.

Every tag transmits its unique ID and location information after movement events. By using the patented RadioCloud signal processing architecture, transmissions require very little power but can be accurately received up to hundreds of feet away by a RadioCloud Gateway and reported to the user's application via an API. Gateways can cover up to 100,000 square feet indoors.

The RT-300 uses low cost BLE beacons installed in ceilings, parking decks and similar structures to determine its location. Location accuracy of 3 meters or better can be achieved in most structures depending on the number and location of beacons.

An easy to install cradle can be attached to most flat plastic or metal surfaces with double-sided tape or cable ties. An internal coin cell battery can be easily replaced by simply removing the tag from the cradle with a supplied security tool and removing a single screw to access the battery.

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Operating Frequency	902 – 928 MHz, 2400-2480 MHz
Average transmission power	< 1 uW
Battery Life	Up to 3 years
Sensors	Internal accelerometer, temperature and BLE beacon
Messages	Location upon motion, low battery and tamper
Regulatory	FCC/IC Part 15
Dimensions	2.5 x 1.5 x 0.5 inches
Weight	1 oz
Security	Tamper alert when removed from cradle
Material	ABS
Operating Temperature	0° C to +60° C
Storage Temperature	-25° C to +60° C
Operating Humidity	0 to 100%, non-condensing
Moisture and Dust Ingress	Splash resistant
Disinfection	Resistant to quaternary ammonium cleaning
Battery	Customer replaceable internal coin cell

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: changes not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

WARNING: a 20cm separation distance must be maintained between this device and the user.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.