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The Active 433MHz Thin RFID Tag is a battery-powered RF transmitter that attaches to items that need to be tracked, located and identified. Every tag broadcasts its factory pre-programmed, unique ID and a status message at a periodic rate. The tags their low profile and rounded edges make them specifically useful for tracking IT equipment and shareable resources such as handheld and laptop computers that slide into carrying cases and frequently move between different locations.



The Active RFID tag’s adhesive backing allows for easy installation and helps prevent tampering or removal of the tag – simply peel the adhesive backing off of the tag and apply the tag to an asset. These Thin Tags are designed to be used for the entire lifespan of a single asset. Communication protocols allow for very high tag densities so that large populations of tags can be deployed in highly scalable asset tracking environments.

The tags beacon once every 2.5-second and can be customized to support an integrated tamper detection sensor. Once applied, if the tag is removed from the asset it will broadcast a tamper alarm signal that can then be acted upon.

The tags are impact resistant, splash resistant and temperature stable. Read ranges up to 1,000 feet can be obtained with optional antenna configurations. The standard tag operates with a very low duty cycle that translates to long battery life of greater than 3 years (typical) at a 2.5-second beacon rate.

Features

- ✓ Encoded Radio Transmissions at 433 MHz
- ✓ Low Profile and Rounded Edges
- ✓ Thin Tag Enclosure
- ✓ Designed for Use with a Single Asset
- ✓ 2.5 Second Beacon Rate
- ✓ Low Power Consumption for Long Battery Life
- ✓ Smart Tag Options: Tamper Detection
- ✓ Superior Anti-Collision Technology for High Tag Densities



Technical Specifications

Operation

Operating Frequency	433.92 MHz
Group Code & Tag ID Codes	> 1trillion unique IDs
Typical Transmission Range	> 300 ft.
Radiated Emissions	71.8 dBuV/m (maximum)
Modulation	ASK
Stability	Saw Stabilized
Sensor Options	Tamper

Enclosure

Width	3.04 in (77.21 mm)
Depth	1.370 in (34.79 mm)
Height	0.228 in (5.79 mm)
Case Weight	0.50 oz (14.1 g)
Construction	Injection-molded polycarbonate enclosure
Durability	Tough, impact resistant and temperature stable

Environmental

Operating Temperature:	-20° C to +70° C
Storage Temperature:	-40° C to +80° C
Sealing	Splash resistant

Power

Battery Type	Lithium CR2032 coin cell
Smart Tag Feature	Low battery indication
Battery Life	3 years (measured at 2.5 second beacon interval)



GAO RFID Inc.

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Product Overview

**Active 433MHz IT Asset Tag
124046**



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