



***These active tags can be customized to support a broad range of integrated sensors to monitor tag status.***

The 433MHz Security 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 have a modular design and provide an economical solution to a wide variety of problems. The tags communication protocols allow for very high tag densities; large populations of tags can be deployed in highly scalable asset tracking environments.



These active tags can be customized to support a broad range of integrated sensors to monitor tag status. Motion activated tags can be programmed to operate at 2 beacon rates: slow when the tag is stationary and faster when the motion sensor is activated, which provides immediate notification when objects are moving. Tamper switches can be installed to trigger an alert if a tag is removed, and panic buttons can be added for personnel and security applications.

Tag cases 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 over 7 years (typical) at a 10-second beacon rate.

## **Features**

- ✓ Encoded Radio Transmissions at 433 MHz
- ✓ Small Size
- ✓ Customizable Beacon Rates
- ✓ Low Power Consumption for Long Battery Life
- ✓ Multiple Mounting and Enclosure Options
- ✓ Adaptive Form Factor for Customized Solutions
- ✓ Smart Tag Options: Motion and Tamper Detection, Panic Alert
- ✓ Superior Anti-Collision Technology for High Tag Densities



## Technical Specifications

### Operation

<b>Operating Frequency</b>	433.92 MHz
<b>Group Code &amp; Tag ID Codes</b>	> 1trillion unique IDs
<b>Typical Transmission Range</b>	> 300 ft.
<b>Field Strength</b>	1.5 uW (EIRP)
<b>Modulation</b>	ASK
<b>Stability</b>	Saw Stabilized
<b>Sensor Options</b>	Motion, Tamper, Panic

### Endosure

<b>Width</b>	1.35 in (34.28 mm)
<b>Depth</b>	1.84 in (46.74 mm)
<b>Height</b>	0.46 in (11.68 mm)
<b>Case Weight</b>	.5 oz (14.1 g)
<b>Construction</b>	Heat reflective polycarbonate
<b>Durability</b>	Tough, impact resistant and temperature stable
<b>Mounting Options</b>	Tape, lanyard, asset strap, cable tie, magnet, screw

### Environmental

<b>Operating Temperature:</b>	-20° C to +70° C
<b>Storage Temperature:</b>	-40° C to +80° C
<b>Sealing</b>	Splash resistant or optional waterproof case

### Power

<b>Battery Type</b>	Lithium CR2032 replaceable coin cell
<b>Battery Life</b>	> 7 year (battery life measured at 2-second motion beacon interval / 12.5-second static beacon interval with 10% motion over the life of the tag)



**GAO RFID Inc.**

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*Celebrating Over 15 Year of Innovation*

*Product Overview*

**Active 433MHz IT Asset Tag  
124046**



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