



The cost-effective long-range active RFID tag is appropriate for tracking mobile assets, controlling access or online inventory, and localizing of assets or personnel in designated areas.

This cost-effective long-range UHF RFID tag is appropriate for tracking mobile assets, controlling access or online inventory and localizing assets or persons in designated areas. It offers outstanding read distances of up to 100m for wireless applications. Static data are written on the tag and sent at a programmable interval without requiring a request from the reader.



The active beacon tag uses advanced UHF radio frequency technology and transmits data to a mobile or fixed reader within the range. Its ultra-low power consumption and configurable ping rate enable it to operate effectively for many years without additional maintenance. This tag is compatible with GAO's UHF RFID interrogator PC card (227002) and UHF RFID reader (227004).

Features

- ✓ 100m read distance
- ✓ Long battery life
- ✓ Available for both standard North American and European ISM band frequencies
- ✓ Non-line-of-sight data transmission allows for contactless identification
- ✓ Automatic data transmission
- ✓ Durable industrial housing
- ✓ Customizable ping rate
- ✓ An economical choice for tracking assets with active RFID technology



Specifications

Read range	To 227004 RFID tag	Up to 100m
	To 227002 RFID tag	Up to 100m
Operating frequency	868MHz (EC) or 915MHz (NA) ISM band	
Repetition rate	0.5 to 60s in 0.5s steps	
Transmission power	<1mW	
Certification	CE (EN 300 220-1/3; ETSI EN 301 489-1/3), FCC part 15 (US), Industrial Canada	
Power source	Lithium battery (not replaceable)	
Expected battery life	4 years at 2s intervals	
Programmability	One time	
Programming and activation	Wireless by proximity device over a distance of 5cm at maximum	
Reprogrammable	No	
Deactivation	No	
Data size	9 bytes (user definable)	
Identification code	32bit fixed ID	
Shock	50G, 3 times DIN IEC 68-2-27, multiple drops to concrete from 1m high	
Vibration	3G, 20 sine wave cycles, 5Hz to 150Hz, DIN IEC 68-2-6	
	5G, noise 5Hz to 1000Hz, 30min DIN IEC 68-2-64	
Case material	Plastic	
Enclosure rating	IP65 – protect against dust and low-pressure jets of water	
Color	Royal blue	
Operating temperature	-30°C to 70°C	
Dimensions	131mm × 28mm × 21mm	
Weight	50g	





GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

Active UHF RFID Beacon Tag (137001)



GAO Group

GAORFID.com

GAOTek.com

GAORFIDAssetTracking.com

GAOComm.com

GAOInstruments.com

GAOFiberOptics.com

GAOEmbedded.com

GAOResearch.com

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