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

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