



This passive UHF single chip RFID tag performs reliably in environments around liquids, metals and other RF-unfriendly conditions to ensure accurate read and write.

This compact, battery-assisted RFID tag is designed for a variety of indoor and outdoor applications. It performs reliably in environments around liquids, metals and other RF-unfriendly conditions to ensure accurate reads and writes to the tags on vehicles, containers and bins at a distance of up to 50m. Designed with a new type of tag antenna, it offers long range, on-edge performance on metal regardless of tag orientation. This UHF RFID tag can be mounted on reusable totes, heavy machinery, trucks, rail cars, cargo containers and more with adhesives, screws or plastic cable ties.



Key Features

- ✓ Low turn-on threshold
- ✓ On-edge read/write
- ✓ High read/write reliability – take advantages of multi-path in metal rich environments
- ✓ Multi-stage wake up
- ✓ 60kb user-rewritable memory to store user information locally on tags (E-manifest, maintenance records, custody chain, history, etc.)
- ✓ Lockable read/write user memory to protect data integrity
- ✓ Activation of Selected Group of tags – enables faster identification and storing of tagged items
- ✓ Built-in application-specific security
- ✓ High receive signal sensitivity and backscatter efficiency



Technical Specifications

Device Type	Class 3 RFID (battery-assisted passive) single chip transponder
Operating Frequency	902 to 928MHz (North America); 865 to 868MHz (Europe/India)
Modulation	Amplitude modulated forward link (reader to tag) Frequency modulated reverse link (tag to reader)
Date Rates	8kb/s forward link 8kb/s or 32kb/s reverse link
Data Retention	10 years at 85°C
Memory	64kb total, 60kb rewritable non-volatile user memory
Battery Life	Up to 5 years depending on use; data is persistent and also readable at close range upon battery expiration
Enclosure Protection	IP67
Operating and Storage Temperature	-20°C to 60°C/-4°F to 140°F
Shock	IEC 60068-2-32, test Ed
Vibration	IEC 60068-2-6, test FC
Dimensions	75mm × 75mm × 15.8mm/2.95" × 2.95" × 0.62" (L × W × D)
Other Features	Password-controlled read, write, 1kb block level locking and permalock





GAO RFID Inc.

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Product Overview

Passive UHF Single Chip RFID Tag (136006)



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