





COMPACT UHF RFID TAGS THAT ENABLE TRACKING OF METAL ASSETS IN HARSH ENVIRONMENTS

- Extreme durability waterproof, and resistant to chemicals, vibration, shock and temperature fluctuations
- Exceptional size-to-performance ratio reliably read-write when mounted on metal objects from up to 13 ft (4 m)
- Advanced technology UHF permits anti-collision capability and fast data rate communication

IronTag* UHF transponders deliver exceptional performance on metal surfaces, and they are built to withstand vibration, shock, chemical exposure and fluctuating temperatures. The transponders enable radio frequency identification (RFID) tagging of metal equipment and components that are subject to severe conditions.

Originally designed for tracking aircraft parts, IronTag devices tolerate the harsh conditions of manufacturing and processing as well as vehicle and equipment operation. They handle temperatures from -40° F (-40° C) to 356° F (180° C), are waterproof, and withstand exposure to fuels, oils, salt water and ultraviolet light. They are resistant to pressure (>10 bars), vibration and steady flame for short periods.

Compact and powerful, these tags offer robust performance with read ranges of up to 13 ft (4 m). The 512-bit user memory and 96-bit

EPC number are configurable to accommodate longer EPC codes. In addition, the tags offer anti-collision functionality, fast data rate communication, and optional password protection for added security.

The durable IronTag RFID tags mount to any metal surface with industrial glues or optional high-temperature stickers, making them ideal for logistics applications that track metal components through assembly, operation, maintenance and repair.

The patent-pending design meets or exceeds standards for the most demanding industries, including aircraft manufacturing and fleet management. It is also the ideal tag for metallic asset tracking applications where a small form factor and durability are vital.

TECHNOLOGY HIGHLIGHTS:

- 869 or 915 MHz
- 512 bit read-write memory, 96 bit EPC
- Reliable performance on metal surfaces
- Waterproof; chemical, UV and flame resistant
- Thermal protection from -40° F (-40° C) to 356° F (180° C)
- Standards compliant



APPLICATION AREAS:

- Asset tracking and logistics
 - Equipment
 - Fleet management
 - Machinery
 - Metal tools

- Automation and manufacturing
 - Assembly line management
 - Aircraft parts tracking
 - Industrial component tracking

SPECIFICATIONS







HID Global can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

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