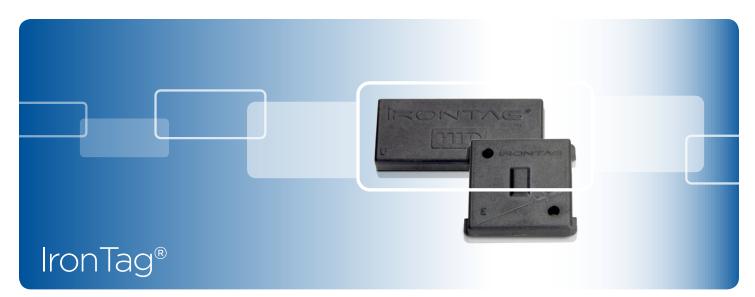
## INDUSTRY AND LOGISTICS







### **TECHNOLOGY HIGHLIGHTS:**

- 869 or 915 MHz
- Up to 8192 bit read-write memory, 128 bit EPC
- Reliable performance on metal surfaces
- Waterproof even under high pressure or high temperature; chemical, UV and flame resistant
- Thermal protection from -40° F (-40° C) to 428° F (220° C)
- Standards compliant

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

- Extreme durability waterproof, and resistant to flame, 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<sup>\*</sup> 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.

Designed for tracking aircraft parts, IronTag devices tolerate the harsh conditions of vehicle and equipment manufacturing, processing and operation. They handle temperatures from -40° F (-40° C) to 428° F (220° C), are waterproof, resist high-pressure/high-temperature washing and withstand exposure to fuels, oils, salt water and ultraviolet light. They are resistant to pressure (<100 bar), vibration and steady flame for short periods. IronTag 206 units deliver the highest flame resistance rating available. Compact and powerful, these tags offer robust performance with read ranges of up to 13 ft (4 m), and large user memory capacities up to 8192 bits.

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

The smaller, lighter-weight IronTag 206 device features flanges on two sides and pre-drilled holes, enabling additional secure fixation options via clamps or screws.

Patent-pending designs meet standards for the most demanding industries, including aircraft manufacturing and fleet management. They are ideal for metallic asset tracking applications where a small form factor and durability are vital.

#### **APPLICATION AREAS:**

- Asset tracking and logistics
  - Equipment
  - Fleet managementMachinery
  - Metal tools

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

	Iron Tag*						
	176		206				
Base Model Number	698901	698902	6D2903	6D3903	6D2904	6D3904	
ELECTRONIC							
<b>Operating Frequency</b>	869 MHz (EU) 915 MHz (US)		869 MHz (EU) 915 MHz (US)			łz (US)	
Chip Type	Higgs 3		Monza X				
User Memory	512 bit		2176 bit	8192 bit	2176 bit	8192 bit	
Memory	96 bit EPC, 64 bit TID		128 bit EPC, 96 bit TID				
Anti-Collision	Yes						
<b>Reading Distance</b> (2W reader ERP, free space)	Up to 13.1 ft (4 m), on-metal		Up to 8.2 ft (2.5 m), on-metal				
PHYSICAL							
Dimensions	2.1 x 0.9 x 0.27 in (	(53 x 23 x 7 mm)	1.32 x 1.22 x 0.24 in (33.7 x 31.1 x 6.1 mm)				
Mounting Method	Glue, optional sticker		Clamp, glue, screw; optional sticker				
Screw Fixation Hole	n/a Ø 0.13 in (3.3 mm)						
Affixes To	Metal surfaces						
Housing Material	PPA, Polyphthalamide, (ISO PA6T/6I)						
Color	Black						
Weight	0.52 oz	(14.7 g)		0.35 oz (9.9 g)			
CHEMICAL AND MECHANICAL		_			_		
Water	IP68, 68° F (20° C), IP69K (100 bar at 80	3.3 ft (1 m) × 24 h; °C, 30 sek., 16 l/min)	IP67, 68° F (20° C), 3.3 ft (1 m) × 1 h				
Withstands Exposure To	Fuel B, mineral oil, petroleum, salt mist, vegetable oil; UV (ISO 4892-2)						
Environmental Test Conditions	68° F (20° C), 100 h						
Flame resistance	UL 94 HB, food compatible UL 94 V0						
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]						
Shock	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]						
Impact	IEC 62262-IK07 IEC 62262-IK06						
Axial / Radial Force	800 N / 500 N, 10 sec						
THERMAL							
Storage	-40° to +194° F (-40° to +90° C), 1000 h						
Operating	-40 °to +185° F (-40° to +85° C)						
Shock/Fatigue	-40° to +194° F (-40° to +90° C), 100 x 5 min with 30 sec transition -67° to +302° F (-55° to +150° C), 500 x 5 min with 30 sec transition						
Peak (one time)	356° F (180° C) 400 h 302° F (150° C) 1000h, 356° F (180° C) 400 h, 392° F (200° C) 24 h, 428° F (220° C) 10 h						
OTHER							
Standards	UHF EPC Class 1 Gen 2; ISO/IEC 18000-6C; GS1 EPC TDS 1.6; ATA Spec 2000; SAE AS5678; DIN 40050-9						
Options	High bond, high temperature adhesive (add "-001" after part number); alternate embossed logo						
Warranty	2 Years						



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