

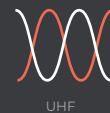
HIGH PERFORMANCE UHF METAL TAG

IDENTIFICATION ON METAL IN HARSH ENVIRONMENTS



BENEFITS

- Smallest On-metal tag
- Harsh environment
- Best high performance to size ratio
- Multifixations
- Compatible with ATA SPEC 2000 standard



The IronTag[®] Aero UHF EPC1 Gen2 (ISO18000-63) range of tags has been specially designed to offer the best contactless identification performances of metal parts in extreme environments.

Its optimized design ensures total control of costs and a better Return On Investment.

BEST PERFORMANCE-TO-SIZE RATIO

The IronTag[®] Aero offers an unmatched performance-to-size ratio and allows a successful contactless identification of your smallest and narrowest metallic assets: up to 3 m / 9.84 ft* of reading distance in ETSI version, and up to 5 m / 16.40 ft* in FCC version.

MEDIUM MEMORY TAG VERSION

The IronTag[®] series is built around a medium memory (2Kbits/8Kbits) chip. The Impinj[®] Monza X Dura family chip offers superior passive read / write sensitivity and the best memory size/price ratio.

DESIGNED FOR HARSH ENVIRONMENTS

The STid rugged tags improves tracking and automated management of manufacturing processes in harsh environments.

The robust IP68 IronTag[®] series is qualified and certified to withstand extreme conditions: dust, heat shocks and fast fluctuations, pressure (>10 bars), liquid (water, detergents, alcohols, oils, petrol, gas, kerosene, skydrol, etc.) and flame resistant (self-extinguishing).

TAGS FOR EXACTING APPLICATIONS

The UHF IronTag[®] series is designed to satisfy the most exacting industries. This new rugged tag generation is compliant with EPC Class 1 Gen 2 / ISO18000-63 RFID international standards.

These innovative UHF tags meet technical requirements of industrial markets for tracking/maintenance applications of small metal assets: IT, returnable items (gas cylinders, containers, and more), oil & gas pipelines, tools, weapons, in-plant vehicle.

AEROSPACE INDUSTRY IDENTIFICATION

The IronTag[®] Aero, proven by Airbus Helicopters for the RFID Aero program, has become the standard for the aerospace industry! The IronTag[®] Aero is compliant with EPC Class 1 Gen 2 / ISO18000-63, ATA Spec.2000 chapter 9.5 and SAE AS5678. These innovative UHF tags meet technical requirements for tracking applications of metal assets in aerospace.



Aerospace



Energy



Defense

SPECIFICATIONS

| | |
|------------------------|---|
| Operating frequency | 866 MHz for readers ETSI 302-208 compliance (865.7-867.7 MHz) 915 MHz for readers FCC Part15 compliance (902-928 MHz) |
| Standards | EPC Class 1 GEN 2 / ISO18000-63 / SAE AS5678 / DO-160 / ATA SPEC 2000 Chapter 9.5 and Annex 11 (TRS/DRT) |
| Modes | Read / Write |
| Chip | Impinj® Monza® X-2K Dura / X-8K Dura |
| EPC/User memory | Monza® X-2K Dura / EPC 128 bits / User 2176 bits / TID 48 bits – Monza® X-8K Dura / EPC 128 bits / User 8192 bits / TID 48 bits |
| Data storage | 50 years |
| Reading distances* | ETSI version: up to 3 m (9.84 ft)* FCC version: up to 5 m (16.40 ft)* |
| Material | PPA, Polyphthalamide [ISO: PA6T/6I] |
| Dimensions (h x w x d) | 30 x 33 x 5 mm / 1.18" x 1.29" x 0.2" |
| Weight | 8.4 g |
| Operating temperature | - 60°C to + 90°C / - 76°F to + 194°F |
| Storage temperature | - 60°C to + 150°C / - 76°F to + 302°F |
| Resistance | IP68 Harsh environment (t°, pressure, humidity...) industrial applications High temperature cycles Heat shock and fast fluctuations: > 500 cycles of 30 sec between - 50°C / + 150°C (- 67°F / 302°F) Ice reliability at - 60°C (- 76°F) Altitude up to 50000 ft Operational shocks 5 x 1000N, 10 sec Humidity: T > +85°C(-185°F), RH > 95% Salt fog: 5 wt% NaCl, 35°C, 90h Liquid resistance: water, detergents, alcohols, oils, petrol, kerosene, skydrol. Flame resistant (self-extinguishing) |
| Mounting | Adhesive 3M F9473PC / Bi-component glue Screw / Crimping Metal plate as option |
| Certifications | CE & FCC |
| Part number | ETSI Monza® X-2K Dura version..... TMDW53E206/1 ETSI Monza® X-8K Dura version..... TMDW54E206/1 FCC Monza® X-2K Dura version..... TMDW53U206/1 FCC Monza® X-8K Dura version..... TMDW54U206/1 |

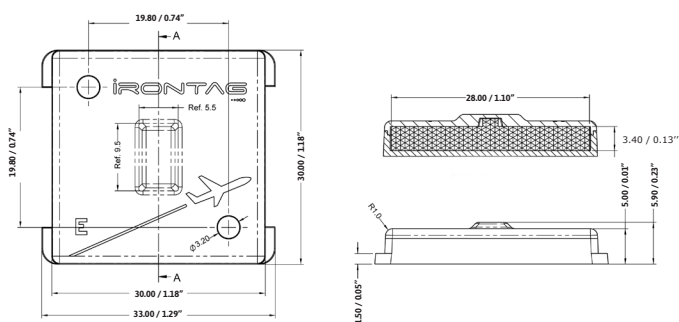
DISCOVER OUR IRONTAG® RANGE



IronTag®
Xtrem

IronTag®
360

IronTag®
Flex



Mechanical plan (mm / inch)

The IronTag® range includes different bracket types for permanent, non-adhesive installation. Affixed with four 3.2 mm (0.11") diameter screws. Nameplates can be customized upon request.

*Caution: information about the distance of reading: measured from the center of the antenna, depending on the type of identifier, operating environment of the reader, power supply voltage. External disturbances can cause the reading distances to decrease. The performance is reduced on the athermic windshield.

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