

ON-METAL HARDY 9020



Global Tag **ON-METAL HARDY_9020** is a high-performance UHF RFID tag specifically designed for on-metal applications.

Its robust construction and optimized design ensure reliable RFID performance when mounted directly on metal surfaces.

Suitable for both indoor and outdoor environments, HARDY_9020 can be easily installed using the integrated 3M adhesive backing or mechanically fixed through the two mounting holes, providing flexibility according to different application requirements.

The tag can also be customized with laser-engraved serial numbers and barcodes, making it particularly suitable for asset identification, industrial equipment tracking, logistics, maintenance and traceability applications.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 90x20x3mm

Mounting System: Rivet Holes (two holes) : ϕ 5mm (0,20 in) or Adhesive (3M 55280)

Weight: 9gr.

Material: PCB Material

Color: Generally black color – Available optionally any other colors

Class Protection: IP67 (Totally protected against ingress of solid / Protected against short periods of immersion in water.)

Storage Temperature: -55°C (for 3h) to +100°C (for 2h) / -67°F (for 3h) to +230°F (for 2h) (for any other particular request contact us)

Operating Temperature: -25°C to +85°C / -13°F to +185°F

Weather Ability: Very Good, including UV resistance and sea water

Delivery format: Singulated

Expected lifetime: Years in normal operating conditions

Chemical resistance:

No physical or performance changes in (tested up to, more hours can be):

- 200 hours Motor oil immersion
- 200 hours Salt water (salinity 10%) exposure
- 200 hours H₂SO₄ Sulfuric acid (10% pH 2) exposure
- 24 hours NaOH Caustic Soda (10%, PH 13) exposure
- 24 hours HCl Muriatic Acid (10%) exposure
- 24 hours Na₂CO₃ Soda Solvay
- 24 hours NH₃ Ammoniac (5% to 25%)

Values in the table are the best recommendations; resistance against environmental conditions depends on the combinations of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. We are available for other information.

CHIP SPECIFICATION AVAILABLE:

	UHF 860-960MHz
Device type	Class 1 Gen 2
Air interface protocol	ISO18000-63
IC Type Available	Alien Higgs3, other on-request
Read Range	Up to 4/5meters

CUSTOMIZATION OPTIONS:

Printing laser engraving: serial progressive number from database, randomize number from database text and Barcode or QRCode. Other customization on required.

Silk Printing : 2-colors printing logo

Pre-Encoding: Customer specific encoding of EPC or User Memory (also from Database). Locking permanently or with password. Insert into Database TID code.

INSTALLATION MODE:

With 3M Adhesive model: when mounting the tag with adhesive background, clean and dry the surface for obtaining maximum bond strength.

With Screws: Size M4.

With Pop Rivet: Size 4mm. We have available rivet and also optional Manual pistol rivet.

APPLICATION NOTE:

On-Metal Bins management: **ON-METAL HARDY** with small size but high performance can be used to track and manage bins even when they are outdoors or in harsh conditions.

On Metal Waste bin management: **ON-METAL HARDY** can be applied on-metal waste bins; with protected material and red color is visible and very rugged transponder.

Logistics, supply chain and Yard management: : **ON-METAL HARDY** is made to control container, pallets, carts, construction vehicles or again other metallic components.

Maintenance On-Metal assets: **ON-METAL HARDY** is strong tag made to improve maintenance service with easy method to install on -metal surface.

ORDER INFORMATION:

Standard product is made with Alien Higgs3 chip

PRODUCT CODE: GT-HRDY_4010-AH3

For printing options or for produce transponder with different color or with other type of customization... contact us for more information:

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