

PRODUCT DATASHEET

GLOBAL TAG ON-METAL HARDY_13



Global Tag **ON-METAL HARDY_13** is a small round 13mm diameter on-metal UHF tag, with high performance. Designed for indoor and outdoor environments, it is the best solution if you need to track metal objects in industrial environment. It can be mounted using the optional 3M adhesive or through the hole for a quick fixing way.

Despite its small size, it can be detected at 120cm with a fixed 2W reader (and external antenna).



MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 13mm diameter (0,51inch); thickness:2,8mm (0,11inch)

Mounting System: Rivet Holes (two holes): \varnothing 2mm (0,079 in) or Adhesive (3M)

Weight: 0,6gr.

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: Individual

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, Alien Higgs3, NXP U-Code8, NXP U-Code9 others on-request
Read Range	120cm with 2W ERP (* Tested with LRU1200 Feig Electronics© and Antennas 270x270mm with 9db gain)



CUSTOMIZATION OPTIONS

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

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 55280 Adhesive model: when mounting the tag with adhesive background, clean and dry the surface for obtaining maximum bond strength.

Through holes: n.2 2mm diam. holes; n.4 1mm diam. holes

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_13-xx (xx defines the selected IC chip)

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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DISCLAIMER

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Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.

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