

PRODUCT DATASHEET
GLOBAL TAG ON-METAL HARDY_5213


Global Tag **ON-METAL HARDY_5213**, is an on-metal UHF tag of the “HARDY” series, with great performance. Designed for indoor and outdoor environments, it is a suitable solution if you need to mount a transponder on a metal surface or on a metal object. It can optionally be provided with 3M adhesive.

Several customizations are available as color mold, EPC encoding, serial number engraving and other options on demand.


MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 52x13xmm (2,05x0,51inch) / thickness: 3,5mm (0,14inch)

Mounting System: Adhesive (3M)

Weight: 5gr.

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 Higgs9, NXP U-Code8, NXP U-Code9 others on-request
Read Range	400cm with 2W ERP (* Tested with LRU1200 Feig Electronics© and Antennas 270x270mm with 9db gain)



CUSTOMIZATION OPTIONS

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 Adhesive model: when mounting the tag with adhesive background, clean and dry the surface to get the maximum bond strength. Through the 2 holes (3mm diam.)

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;

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 a strong tag used to improve the maintenance service with easy method to be installed on –metal surface.

ORDER INFORMATION

Standard product is made with Alien Higgs3 chip

PRODUCT CODE: GT-HRDY_5213-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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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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