

Cargo Trak II



The new Cargo Trak II was upgraded with a more rugged casing for outdoor and industrial use.

The new level of durability ensures (improves) tag lifetime of up to 10 years — even in harsh industrial environments — providing an even greater return on investment.



Multi-Surface
on/off metal



Superior read range



High performance
yet cost-effective



IP68



More rugged casing



Performance Characteristics

| | |
|---|---|
| Read range (On metal)¹ | Up to 39 ft (12 m) |
| Read range (Off metal)¹ | Up to 20 ft (6 m) |
| Polarization | Linear |
| Attachment | Rivet hole, \varnothing 0.14 (3.5 mm), Adhesive (optional), Cable tie |

1. Fix reader

Functional Specifications

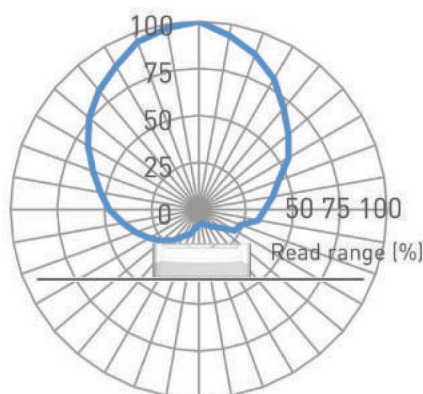
| | |
|-----------------------------------|--|
| RF protocol | EPC global Class 1 Gen2 |
| Frequency | 902-928 (US) ; 865-868 (EU) |
| IC type (chip)¹ | Alien Higgs-3 |
| Memory | 96-EPC bits, 64-bit unique TID, 512-bit user memory |
| Material | Anti-UV industry grade polymer |

1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

- Freight Container Management
- Outdoors Assets Tracking
- Heavy Equipment Inspections
- RTI Management

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Radiation Pattern



Environmental Specifications

| | |
|-------------------------|--------------------------------|
| Operational temperature | -40°C to +85°C |
| Survival temperature | -40°C to +85°C |
| IP rating | IP68 |
| Compression strength | 29 psi (200 kPa) |
| Shock (drop) | 3 ft (1 m) to concrete/granite |
| Vibration | MIL-STD-810G |

Industry Compliance

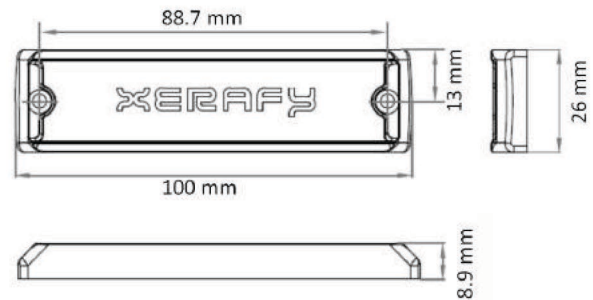
| | |
|------------|-------------------------|
| RoHS | EU Directive 2011/65/EU |
| CE | Yes |
| ATEX/IECEX | Compliant |
| Warranty | 1 year |

Order Information

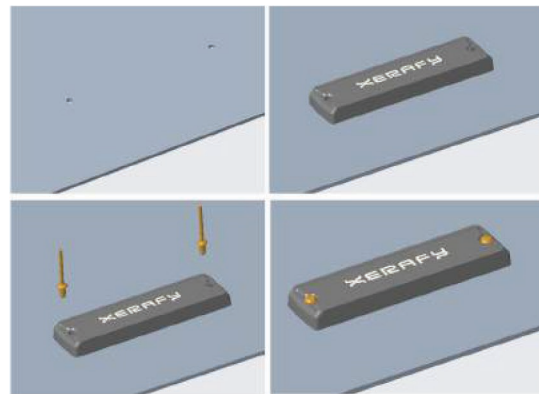
| | |
|------------------|---------------------|
| X03A2-US100-H3 | Cargo Trak II US |
| X03A2-EU100-H3 | Cargo Trak II EU |
| Optional service | Encoding / Printing |

Product Dimensions and Weight

| | |
|---------------------|-----------------------------------|
| Dimensions (in) | 3.94 x 1.02 x 0.35 |
| Tolerance | +/- 0.02 |
| Dimensions (mm) | 100 x 26 x 8.9 |
| Tolerance | +/- 0.5 |
| Rivet hole diameter | 0.137 in +/-0.008 (3.5 mm +/-0.2) |
| Weight | 0.62 oz (17.8 g) |



Installation Instructions



Instructions for optimal performances:

1. Drill two holes on the subject metal surface.
(ϕ 3.4 mm, pitch: 88.7mm)
2. Insert two ϕ 3.2mm (recommended size) rivets on the tag.
3. Fix the tag on the metal surface with a rivet gun.

About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

