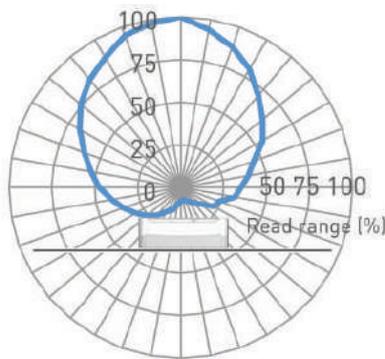




# CARGO OUTDOOR

## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> Impinj M750
- **Chip memory**<sup>2</sup> 96 bits EPC; 96 bits TID; 32 bits user memory
- **Read range on metal**<sup>3</sup> Up to 39.37 ft (12 m)
- **Read range off metal**<sup>3</sup> Up to 19.69 ft (6 m)
- **Polarization** Linear
- **Radiation pattern on metal**



## Key Features

- + **12 m read range:** read from a distance
- + **Multi-surface:** for on/off metal asset
- + **Metal inserts:** rugged
- + **Various mounting systems**
- + **IP68 rating:** waterproof

## Applications

- RTI inventory
- Transportation and logistics
- Yard management
- Construction tools

## Environmental Specifications

### Temperatures



- Operational -40°C to +85°C
- Survival -40°C to +85°C (48 hours)

- **IP rating** IP68
- **Compression strength** 29 psi (200 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

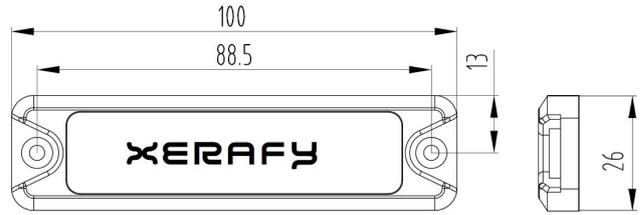
<sup>2</sup> EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

<sup>3</sup> Fixed reader



## Physical Specifications

- **Material** Industry grade polymer, Stainless steel
- **Dimensions (in)**<sup>1</sup> 3.94 x 1.02 x 0.30
- **Dimensions (mm)**<sup>1</sup> 100 x 26 x 8.90
- **Rivet hole diameter**<sup>2</sup> 0.14 in (3.50 mm)
- **Weight** 0.62 oz (17.80 g)



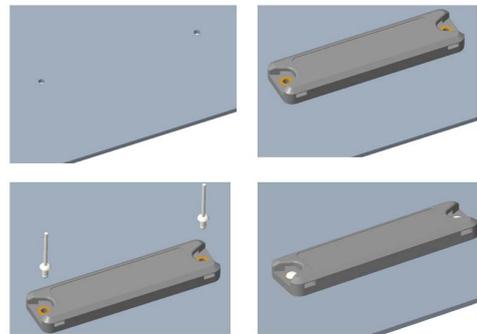
## Mounting Systems

- Pop rivets
- Screws
- Cable and zip ties
- Industrial adhesives (optional)



## Installation Instructions

1. Use M4 rivets for attachment:
  - Drill two holes (∅ 4) in the metal surface, pitch: 88.50 mm.
  - Utilize M4 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
2. Use M4 screws for attachment:
  - Drill two holes (∅ 3.20) in the metal surface, pitch: 88.50 mm.
  - Perform a M4 thread tapping procedure.
  - Utilize M4 screws to securely attach the tag to the metal surface.



<sup>1</sup> Tolerance: +/- 0.02; +/- 0.50

<sup>2</sup> Tolerance: +/- 0.008; +/- 0.200

## Industry Compliance



## Order Information

Cargo OUTDOOR US: X03A3-US100-M750

Cargo OUTDOOR EU: X03A3-EU100-M750

## Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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