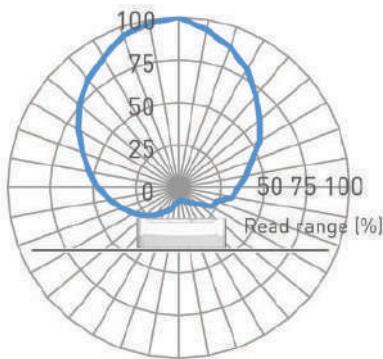




CARGO OUTDOOR

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);
865-868 MHz (EU)
- **IC type (chip)**¹ Impinj M750
- **Chip memory**² 96 bits EPC; 96 bits TID;
32 bits user memory
- **Write cycles** 10,000 times
- **Data retention** 10 years
- **Read range on metal**³ Up to 39.37 ft (12 m)
- **Read range off metal**³ 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
-40°F to +185°F
- Survival -40°C to +85°C (48 hours)
-40°F to +185°F

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

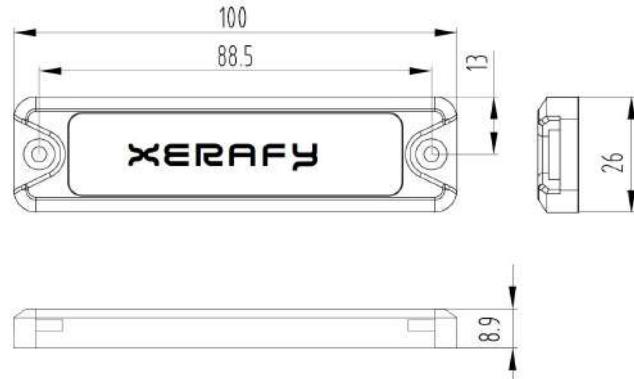
¹ The chip data retention is up to 10 years, based on chip operating under general environment conditions.

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

³ Fixed reader

Physical Specifications

- **Material** Industry grade polymer, Stainless steel
- **Dimensions (in)¹** 3.94 x 1.02 x 0.30
- **Dimensions (mm)¹** 100 x 26 x 8.90
- **Rivet hole diameter²** 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)

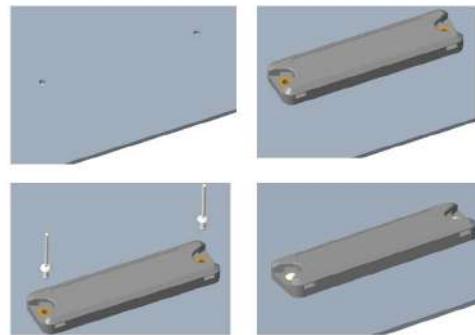
Installation Instructions

1. Use M3 rivets for attachment:

- Drill two holes (\varnothing 3.20) in the metal surface, pitch: 88.50 mm.
- Utilize M3 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.

2. Use M3 screws for attachment:

- Drill two holes (\varnothing 2.20) in the metal surface, pitch: 88.50 mm.
- Perform a M3 thread tapping procedure.
- Utilize M3 screws to securely attach the tag to the metal surface.



¹ Tolerance: +/- 0.02; +/- 0.50

² 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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