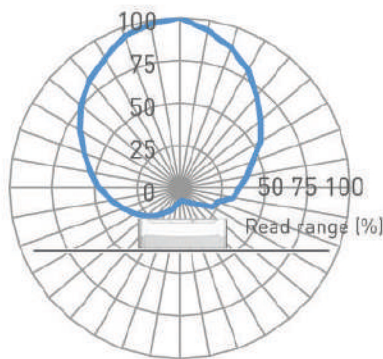# XERAFY

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
- **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
- 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

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[1] The chip data retention is up to 50 years, based on chip operating under general environment conditions.
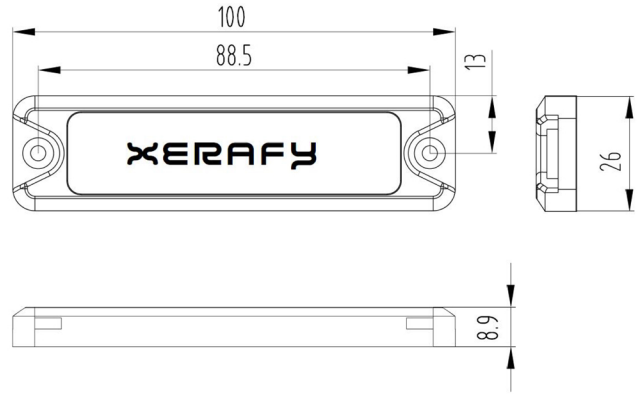[2] EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Fixed reader

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 diameter**[2] 0.14 in (3.50 mm)
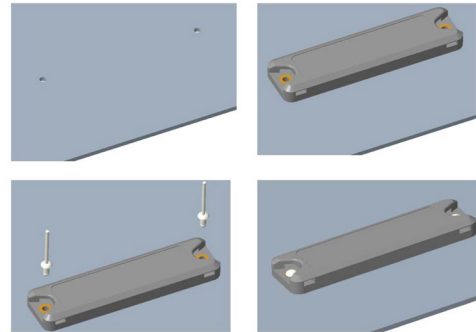- **Weight** 0.62 oz (17.80 g)

Mounting Systems

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

Installation Instructions

1. Use M4 rivets for attachment:
- Drill two holes (ø 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 (ø 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.

[1] Tolerance: +/- 0.02; +/- 0.50
[2] Tolerance: +/- 0.008; +/- 0.200

Industry Compliance

RAIN RFID | RoHS 2002/95/EC | REACH COMPLIANCE | CE | ETSI | FC | ISO 9001:2015 | ISO 14001 | IMPINJ PARTNER

Order Information

Cargo OUTDOOR US: X03A3-US100-M750	Cargo OUTDOOR EU: X03A3-EU100-M750

Customization Options

Encoding	Printing
Laser Marking	Industrial Adhesives
ATEX Certified Version	

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