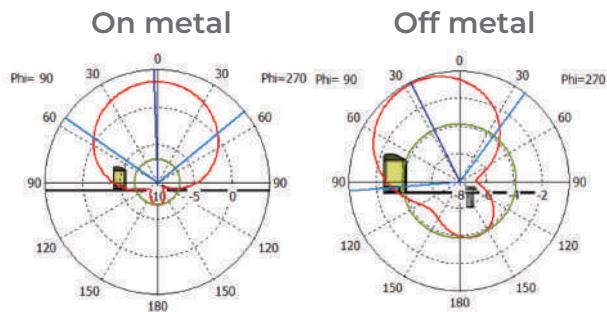




XPLATE

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 32.81 ft (10 m)
- **Read range off metal**³ Up to 19.69 ft (6 m)
- **Polarization** Linear
- **Radiation pattern**



Environmental Specifications

Temperatures



- Operational -40°C to +85°C
-40°F to +185°F
- Survival -40°C to +85°C (168 hours)
-40°F to +185°F
- Peak 100°C (212°F, 100 hours)

- **IP rating** IP68

- **Compression strength** 181 psi (1250 kPa)

- **Shock** 3 ft (1 m) to concrete/granite

Key Features

- **Multidirectional:** wider read angles
- **10 m read range:** read from a distance
- **Aluminum or stainless metal plate**
- **Customizable:** emboss, stamp, print, laser
- **IP68 rating:** waterproof

Applications

- **Tooling machinery**
- **Manufacturing equipment**
- **Shipping container**
- **Construction equipment**
- **Utilities**

Chemicals ⁴



- 24h H₂SO₄ (10% sulfuric acid)
- 24h HNO₃ (10% nitric acid)
- 24h H₃PO₄ (20% phosphoric acid)
- 24h H₂O₂ (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **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 Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

⁴ The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.

Physical Specifications

- **Material** Industry grade polymer, Aluminum or stainless steel plate
- **Dimensions (in)¹** 3.35 x 2.31 x 0.61, 3.35 x 2 (metal plate)
- **Dimensions (mm)¹** 85 x 59.30 x 15.40, 85 x 50.80 (metal plate)
- **Weight** 0.42 oz (11.80 g)
- **Color** Dark gray

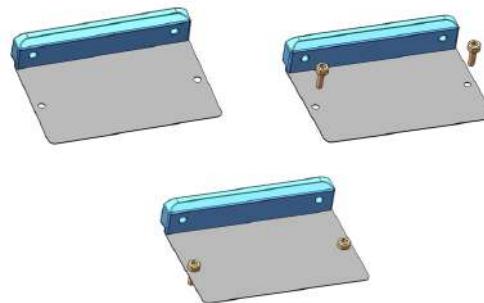
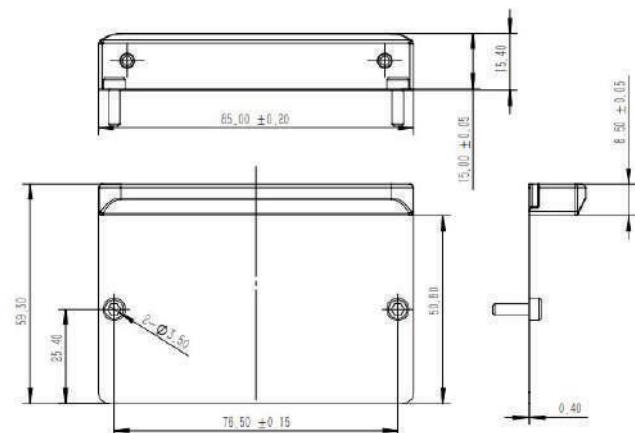
Mounting Systems

- Pop rivets
- Screws
- Welding, adhesive (optional)

Installation Instructions

1. Use M3 rivets for attachment:
 - Drill two holes (ϕ 3.50) in the metal surface, pitch: 76.50 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 (ϕ 2.20) in the metal surface, pitch: 76.50 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



Industry Compliance



Order Information

XPLATE US (aluminum): X8001-US100-M750

XPLATE US (stainless steel): X8002-US100-M750

XPLATE EU (aluminum): X8001-EU100-M750

XPLATE EU (stainless steel): X8002-EU100-M750

Customization Options

Encoding

Aluminum or Stainless Steel Plate

Embossing

Printing

Adhesives (optional)

Password Locking

Plate Size

Stamping

Laser Marking

ATEX Certified Version

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