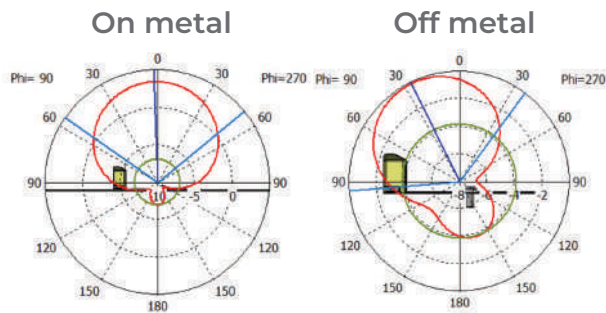




## XPLATE

### 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
- **Write cycles** 10,000 times
- **Data retention** 10 years
- **Read range on metal**<sup>3</sup> Up to 32.81 ft (10 m)
- **Read range off metal**<sup>3</sup> Up to 19.69 ft (6 m)
- **Polarization** Linear
- **Radiation pattern**



### 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

### 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)

#### Chemicals<sup>4</sup>

- 24h H<sub>2</sub>SO<sub>4</sub> (10% sulfuric acid)
- 24h HNO<sub>3</sub> (10% nitric acid)
- 24h H<sub>3</sub>PO<sub>4</sub> (20% phosphoric acid)
- 24h H<sub>2</sub>O<sub>2</sub> (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **IP rating** IP68
- **Compression strength** 181 psi (1250 kPa)
- **Shock** 3 ft (1 m) to concrete/granite

- **Vibration** MIL-STD-810G
- **Warranty** 1 year

<sup>1</sup> The chip data retention is up to 10 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> Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

<sup>4</sup> 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)**<sup>1</sup> 3.35 x 2.31 x 0.61, 3.35 x 2 (metal plate)
- **Dimensions (mm)**<sup>1</sup> 85 x 59.30 x 15.40, 85 x 50.80 (metal plate)
- **Weight** 0.42 oz (11.80 g)
- **Color** Dark gray

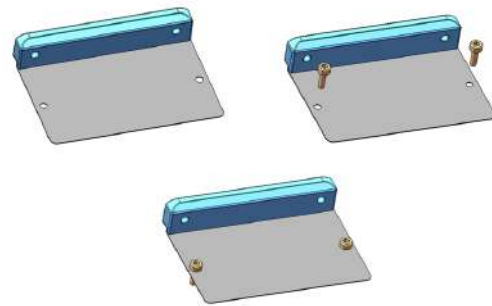
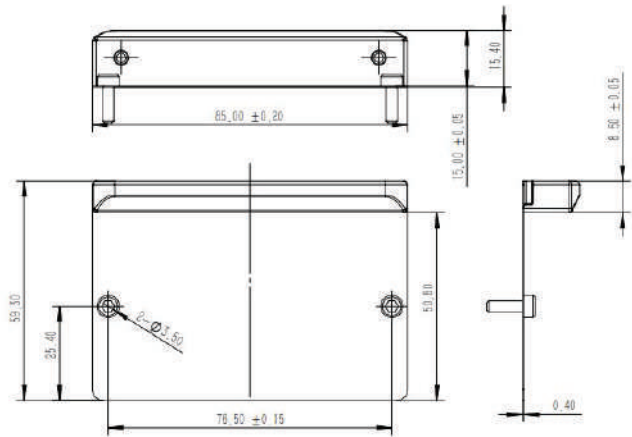
### Mounting Systems

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

### Installation Instructions

1. Use M3 rivets for attachment:
  - Drill two holes (ø 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 (ø 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.

<sup>1</sup> 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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