

XPLATE



The Xerapy XPLATE is a smart RAIN RFID nameplate that enables asset tracking and identification in the field. The proprietary Xerapy technology solves the problem of read angle at height, thanks to multidirectional long-range performance.

With a custom metal plate allowing for all types of visual markings, the all-weather tagging solution is designed to deliver superior reliability and accuracy for critical assets.



Multidirectional



10M on-metal



Emboss, stamp, print, laser



All-weather IP68



Aluminum or Stainless Metal plate



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

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Performance Characteristics

Read range (On metal) ¹	Up to 32.8 ft (10 m)
Read range (Off metal) ¹	Up to 19 ft (6 m)
Polarization	Linear
Mounting system	Screw (M3), Pop rivets (Max size 3mm, Metal plate rivets 3.5mm), Welding, Adhesives (optional)

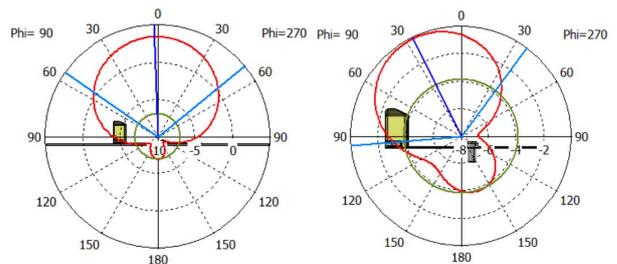
1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) ; 865-868 (EU)
IC type (chip) ¹	Impinj M750
Memory ²	96 bits EPC, 96 bits TID, 32 bits User Memory
Material	Industry-grade polymer Aluminum or stainless steel plate

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.

Radiation Pattern



Read from side on metal

Read from side off metal



Environmental Specifications

Operational temperature	-40°C to +85°C
Survival temperature	-40°C to +85°C
Chemical resistance	Various caustic chemicals ¹
IP rating	IP68
Compression strength	181 psi (1250 kPa)
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

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

Industry Compliance

RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEX	Compliant, Certified (optional)
Warranty	1 year

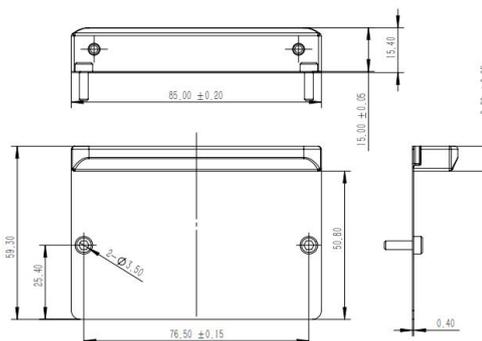
Order Information

X8001-US100-M750	Xplate US (aluminum)
X8001-EU100-M750	Xplate EU (aluminum)
X8002-US100-M750	Xplate US (stainless steel)
X8002-EU100-M750	Xplate EU (stainless steel)
Customization services	Encoding, Password locking Aluminum or Stainless steel plate, Plate size, Embossing, Stamping, Printing, Laser marking, Adhesives (optional)

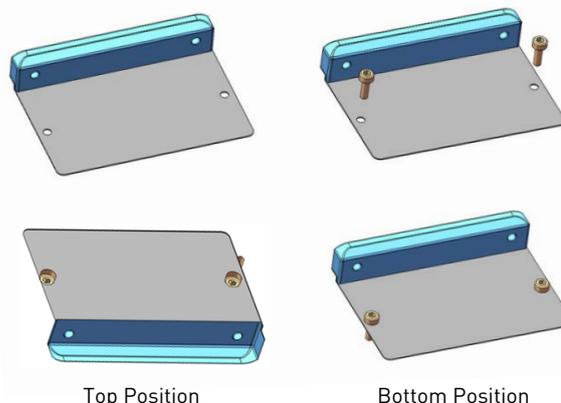


Product Dimensions and Weight

Dimensions (in)	3.35 x 2.31 x 0.61 3.35 x 2 (metal plate area)
Tolerance	+/- 0.02
Dimensions (mm)	85 x 59.3 x 15.4 85 x 50.8 (metal plate area)
Tolerance	+/- 0.5
Weight	0.42 oz (11.8 g)
color	Dark gray



Installation Instructions



Recommend attachment direction:

Instructions for optimal performances:

1. Drill two holes on the subject metal surface.
(ϕ 3.5 mm, pitch: 76.5mm)
2. Insert two ϕ 3.5mm (recommended size) rivets on the metal plate.
3. Fix the tag on the metal surface with a rivet gun.

About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

For Product inquiries: sales@xerafy.com
Singapore | China | US | UK

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