

## Cargo Outdoor



The Cargo Outdoor is an on-off metal asset tracking tag engineered for long-range all-weather operations. The versatile RAIN RFID tag is optimized to operate on a variety of options make it a truly universal tagging solution. Its reinforced case bring industry-grade materials to asset tracking with a lifetime of up to 10 years, ensuring a solid return on investment.



Multi-Surface  
on/off metal



Long read range



High performance  
and high ROI



IP68



Reinforced case



### Performance Characteristics

Read range (On metal) <sup>1</sup>	Up to 39 ft (12 m)
Read range (Off metal) <sup>1</sup>	Up to 20 ft (6 m)
Polarization	Linear
Attachment	Rivets (ø3.2 mm), Screws (ø0.14in /3.5 mm), Cable and Zip ties, Adhesives (optional)

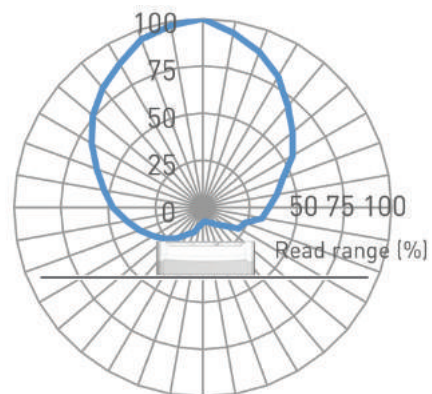
1. Fixed reader

### Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) ; 865-868 (EU)
IC type (chip) <sup>1</sup>	Impinj M750
Memory	96 bits EPC, 96 bits TID, 32 bits User memory
Material	PC6600 with metal inserts

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



- RTI Inventory
- Transportation and Logistics
- Yard Management
- Construction Tools

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## Environmental Specifications

Operational temperature	-40°C to +85°C
Survival temperature	-40°C to +85°C
IP rating	IP68
Compression strength	29 psi (200 kPa)
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

## Industry Compliance

RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEX	Certified
Warranty	1 year

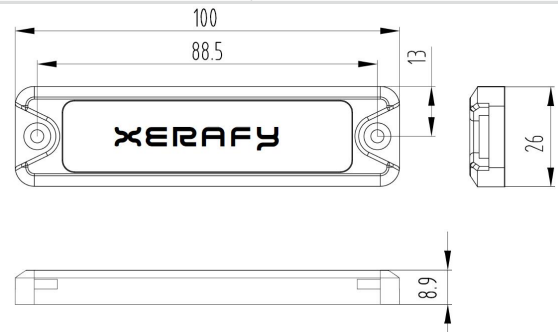
## Order Information

X03A3-US100-M750	Cargo Outdoor US
X03A3-EU100-M750	Cargo Outdoor EU
Customization Services	Encoding, Printing, Laser Marking, Industrial Adhesives, ATEX Certified Version

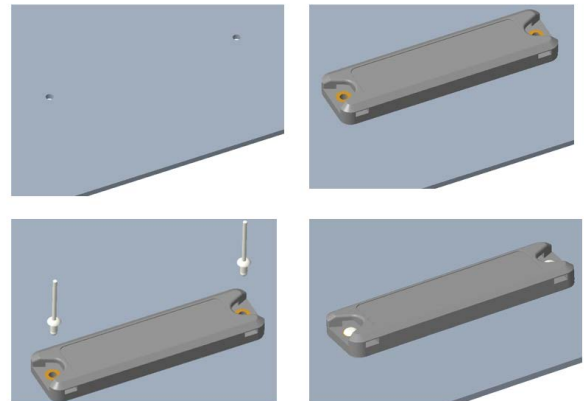


## Product Dimensions and Weight

Dimensions (in)	3.94 x 1.02 x 0.35
Tolerance	+/- 0.02
Dimensions (mm)	100 x 26 x 8.9
Tolerance	+/- 0.5
Rivet hole diameter	0.137 in +/-0.008 (3.5 mm +/-0.2)
Weight	0.62 oz (17.8 g)



## Installation Instructions



Instructions for optimal performances:

1. Drill two holes on the subject metal surface. ( $\phi$  3.4 mm, pitch: 88.7mm)
2. Insert two  $\phi$ 3.2mm (recommended size) rivets on the tag.
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.

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