

GEN2X™

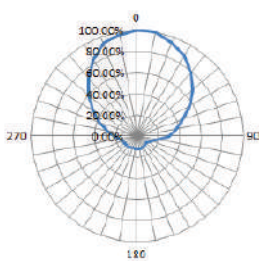


CONTAINER OUTDOOR

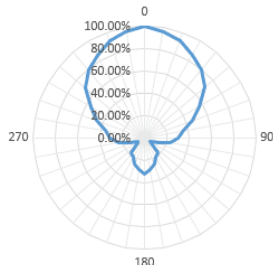
Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);
865-868 MHz (EU)
- **IC type(chip)**¹ Impinj M830
- **Chip memory**² 128 bits EPC; 96 bits TID
- **Read range on metal**³ Up to 131.23 ft (40 m)
- **Read range off metal**³ Up to 82.02 ft (25 m)
- **Polarization** Linear
- **Radiation pattern**

On metal



Off metal



Key Features

- + **40m on metal:** record-breaking read range
- + **Surface versatility:** works on metal, plastic, and wood
- + **Mounting flexibility:** compatible with rivets, screws, cable ties, and adhesives
- + **Rugged housing:** UV-resistant and waterproof
- + **Cost-effective:** for high volume

Applications

- Last-Mile logistics
- Supply chain & inventory management
- Returnable transport packaging (RTP)
- Yard management

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

¹ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

² EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Fixed reader. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (in)¹** 5.46 x 1.65 x 0.47
- **Dimensions (mm)¹** 139 x 42.20 x 12
- **Weight** 1.76 oz (50 g)

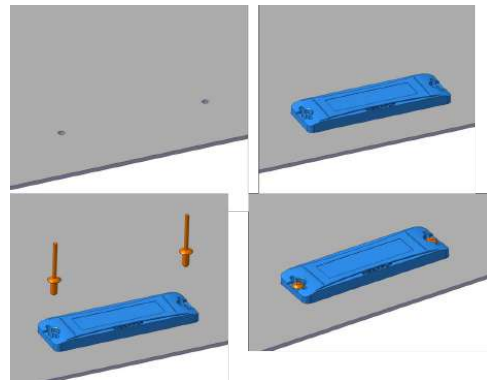
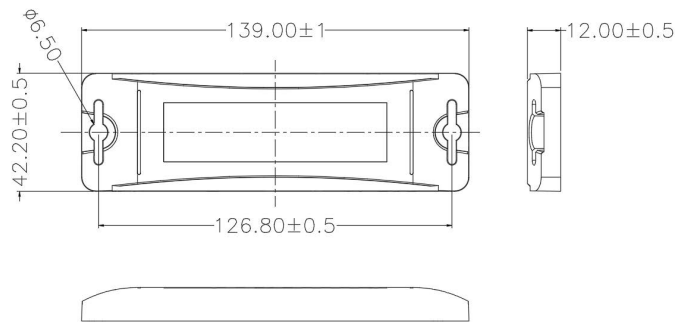
Mounting Systems

- Rivets
- Screws
- Cable ties
- Industrial adhesive (optional)

Installation Instructions

1. Use M6 rivets for attachment:
 - Drill two holes ($\varnothing 5$) in the metal surface, pitch: 126.80 mm.
 - Utilize M6 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
2. Use M6 screws for attachment:
 - Drill two holes ($\varnothing 4.80$) in the metal surface, pitch: 126.80 mm.
 - Perform a M6 thread tapping procedure.
 - Utilize M6 screws to securely attach the tag to the metal surface.

¹ Tolerance: +/- 0.02; +/- 0.50



Industry Compliance



Order Information

Container OUTDOOR US: X0361-US100-M830

Container OUTDOOR EU: X0361-EU100-M830

Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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