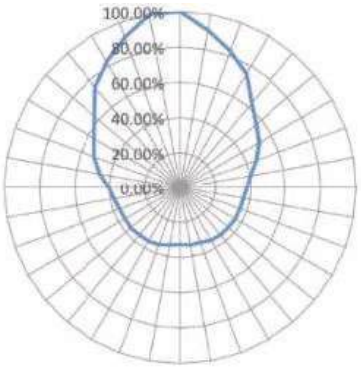
MICRO POWER

IMPINJ GEN2X

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
- **Write cycles** 10,000 times
- **Data retention** 10 years
- **Read range** on metal[3] Up to 19.69 ft (6 m)
- **Read range** off metal[3] Up to 8.20 ft (2.50 m)
- **Polarization** Linear
- **Radiation pattern on metal**



Key Features

+ **Small form factor:** fits small size
+ **6 m read range:** high performance
+ **Rugged mounting systems**
+ **High-performance polymer case:** durable for harsh environment
+ **IP68 rating:** waterproof

Applications

- **Power tool tracking**
- **Automotive Post-Paint processes**
- **Construction tools**
- **Audio-Video equipment**
- **Rental fleet management**
- **RTI management**

Environmental Specifications

Temperatures

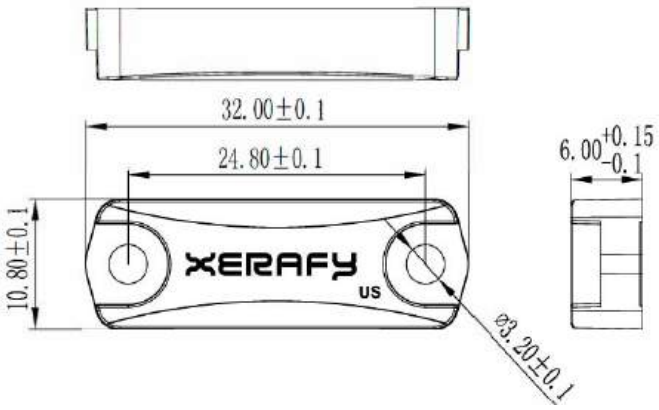
- Operational -40°C to +85°C
  -40°F to +185°F
- Survival -40°C to +150°C (4 hours)
  -40°F to +302°F

- **IP rating** IP68
- **Compression strength** 181 psi (1,250 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- **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] 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] 1.25 x 0.43 x 0.24
- **Dimensions (mm)**[1] 32 x 10.80 x 6
- **Weight** 0.11 oz (3 g)



Mounting Systems

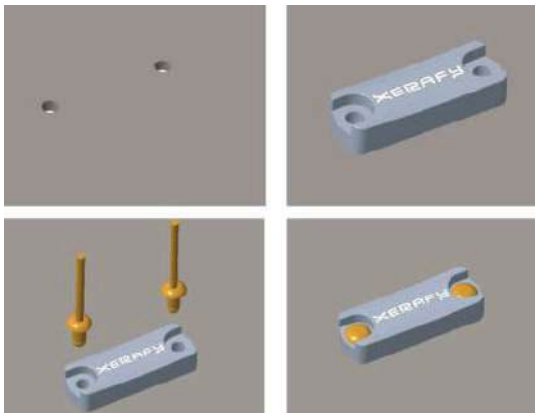
- Pop rivets
- Screws
- Cable ties
- Industrial adhesive (optional)

Installation Instructions

1. Use M3 rivets for attachment:
- Drill two holes (ø 3.50) in the metal surface, pitch: 24.80 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: 24.80 mm.
- Perform a M3 thread tapping procedure.
- Utilize M3 screws to securely attach the tag to the metal surface.

* Can also be attached via adhesive / epoxy.



[1] Tolerance: +/- 0.004; +/- 0.100 mm

Industry Compliance

Order Information

MICRO Power US: X3130-US101-M830	MICRO Power EU: X3130-EU101-M830

Customization Options

Encoding	Printing
Laser Marking	Industrial Adhesives
ATEX Certified Version	

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