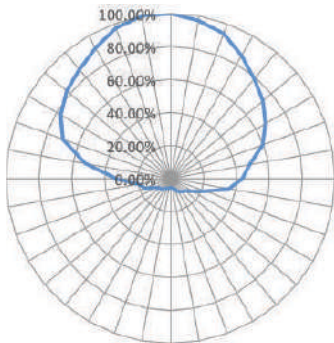




MICRO AUTOCLAVE

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**¹ NXP UCODE 9xm
- **Chip memory**² 128/496 bits EPC; 96 bits TID; 752/384 bits user memory
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range fixed**³ Up to 49.21 ft (15 m)
- **Read range handheld**³ Up to 32.81 ft (10 m)
- **Polarization** Linear
- **Radiation pattern on metal**



Environmental Specifications

Temperatures

- Operational -40°C to +85°C
- Survival -40°C to +150°C
- High temperature cycle 150°C (600 hours)

- **IP rating** IP69K
- **Compression strength** 181 psi (1250 kPa)
- **Shock** 3ft (1 m) to concrete/granite

Key Features

- + **Autoclave proof:** withstand cleaning and sterilization cycles
- + **150°C:** withstand high temperatures
- + **Up to 752 bits user memory:** data storage
- + **Stainless steel inserts:** rugged mounting systems

Applications

- **Autoclave sterilization**
- **Surgical trays**
- **Medical devices**
- **Healthcare equipment**

Chemicals⁴

- 24h H₂SO₄ (10% sulfuric acid)
- 24h HNO₃ (10% nitric acid)
- 24h H₃PO₄ (20% phosphoric acid)
- 24h H₂O₂ (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

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

¹The chip data retention is up to 20 years, based on chip operating under general environment conditions.

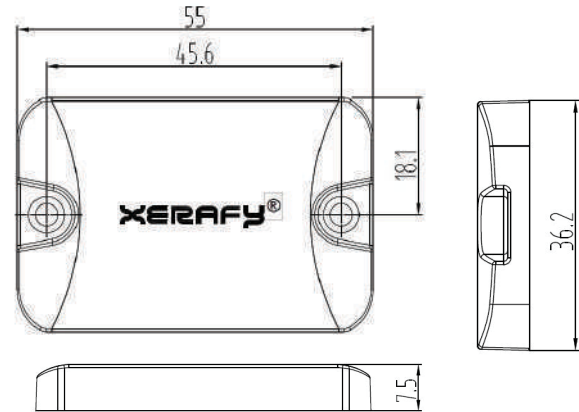
²EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

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

⁴The 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; 316L Stainless steel, Silicone
- **Dimensions (in)**¹ 2.01 x 1.43 x 0.30
- **Dimensions (mm)**¹ 55 x 36.20 x 7.50
- **Weight** 0.92 oz (26 g)
- **Packing information** 76 pcs /one box

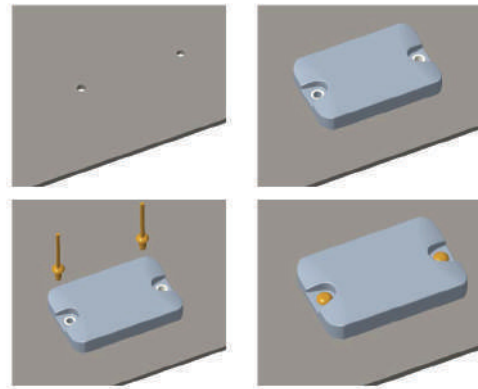


Mounting Systems

- Pop rivets
- Screws

Installation Instructions

1. Use M3 rivets for attachment:
 - Drill two holes (ø 3.50) in the metal surface, pitch: 45.60 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: 45.60 mm.
 - Perform a M3 thread tapping procedure.
 - Utilize M3 screws to securely attach the tag to the metal surface.



¹Tolerance: +/- 0.02; +/- 0.50 mm

Industry Compliance



Order Information

MICRO Autoclave US: X1130-US140-U9xm

MICRO Autoclave EU: X1130-EU140-U9xm

Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Metal Backplate

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