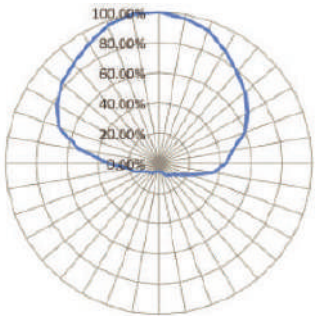
MICRO INDUSTRIAL

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 cycles
- **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**



Key Features

+ **Up to 752 bits user memory:** data storage
+ **250°C:** withstand high temperatures
+ **15m read range:** read from a distance
+ **Stainless steel inserts:** rugged mounting systems
+ **IP68 rating:** waterproof

Applications

- **High temperature production**
- **Work in process**
- **Automotive assembly**
- **RTI management**

Environmental Specifications

Temperatures

- Operational -40°C to +85°C
  -40°F to +185°F
- Survival -40°C to +250°C
  -40°F to +482°F
- High temperature cycle 250°C (482°F, 500 hours)

Chemicals[4]

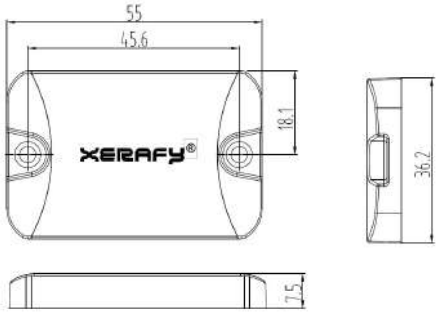
- 24h H_2SO_4 (10% sulfuric acid)
- 24h HNO_3 (10% nitric acid)
- 24h H_3PO_4 (20% phosphoric acid)
- 24h H_2O_2 (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **IP rating** IP68
- **Compression strength** 181 psi (1250 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[1] The chip data retention is up to 20 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] Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.
[4] The 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
- **Dimensions (in)**[1] 2.16 × 1.43 × 0.30
- **Dimensions (mm)**[1] 55 × 36.20 × 7.50
- **Weight** 0.92 oz (26 g)
- **Packing information** 92 pcs /one box

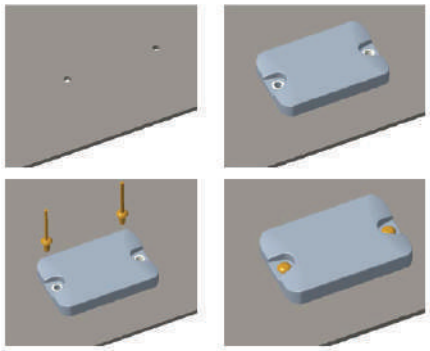


Mounting Systems

- Pop rivets
- Screws
- Industrial adhesive (optional)

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.
* Can also be attached via adhesive / epoxy.



[1] Tolerance: +/- 0.02; +/- 0.50 mm

Industry Compliance

Order Information

MICRO Industrial US: X1130-US100-U9xm	MICRO Industrial EU: X1130-EU100-U9xm

Customization Options

Encoding	Printing
Laser Marking	Industrial Adhesive
ATEX Certified Version	Metal Backplate

株式会社サイレンスネット www.silencenet.com
〒222-0033 横浜市港北区新横浜2-5-9 新横浜フジカビル tel. 045-475-1555 fax. 045-475-3275