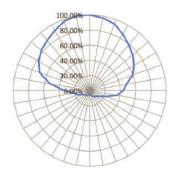




# **MICRO** INDUSTRIAL

## **Technical Specifications**

- RF protocol EPC global Class 1 Gen 2
- Frequency 902–928 MHz (US); 865-868 MHz (EU)
- IC type (chip) Alien Higgs 9
- Chip memory<sup>2</sup> 96 bits EPC; 96 bits TID; 688 bits user memory
- Write cycles 100,000 cycles
- Read range fixed<sup>3</sup> Up to 32.81ft (10 m)
- Read range handheld<sup>3</sup> Up to 22.97ft (7 m)
- Polarization Linear
- Radiation pattern on metal



#### **Key Features**

- + 688 bits user memory: data storage
- + 250°C: withstand high temperatures
- + 10m read range: read from a distance
- + Stainless steel inserts: rugged
- + IP68 rating: waterproof

### **Applications**

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

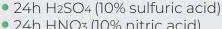
## **Environmental Specifications**

#### **Temperatures**



- Operational -40°C to +85°C
- Survival -40°C to +250°C
- High temperature cycle 250°C (500 hours)
- IP rating IP68
- Compression strength 181 psi (1250 kPa)
- **Shock** 3ft (1 m) to concrete/granite

#### Chemicals<sup>4</sup>



- 24h HNO3 (10% nitric acid)
- 24h H<sub>3</sub>PO<sub>4</sub> (20% phosphoric acid)
- 24h H2O2 (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)
- Vibration MIL-STD-810G
- Warranty 1 year

<sup>&</sup>lt;sup>4</sup>The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.



 $<sup>^{</sup>m 1}$  The chip data retention is up to 50 years, based on chip operating under geneal environment conditions.

<sup>&</sup>lt;sup>2</sup> EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

<sup>&</sup>lt;sup>3</sup> Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



# **Physical Specifications**

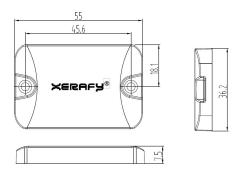
- **Material** Industry grade polymer, 316L Stainless steel
- **Dimensions (in)** <sup>1</sup> 2.16 × 1.43 × 0.30
- **Dimensions (mm)**  $^{1}55 \times 36.20 \times 7.50$
- **Weight** 0.92 oz (26 g)
- Packing information 92 pcs /one box

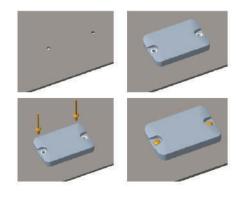
#### **Mounting Systems**

- 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.





## **Industry Compliance**

















# Order Information

MICRO Industrial US: X1130-US100-H9

MICRO Industrial EU: X1130-EU100-H9

## **Customization Options**

Encoding

Laser Marking

**ATEX Certified Version** 

**Printing** 

Industrial Adhesive

Metal Backplate

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<sup>&</sup>lt;sup>1</sup> Tolerance: +/- 0.02; +/- 0.50 mm