

## MICRO Industrial



The Xerafy MICRO Industrial passive RFID tag provides the dependability and durability required in manufacturing and production.

The high-temperature UHF RAIN RFID tag is field-proven for harsh environments, where its durability matches the asset's life, thanks to its rugged case and 10m on-metal performance.



Rugged mounting options



10M on-metal



Durable tagging for harsh conditions



IP68



High-temperatures and chemicals



- Work-In-Process
- High-Temp Production
- Automotive Assembly
- RTI Management

### Performance Characteristics

<b>Read range (handheld)<sup>1</sup></b>	Up to 22 ft (7 m)
<b>Read range (fixed)<sup>1</sup></b>	Up to 32 ft (10 m)
<b>Polarization</b>	Linear
<b>Mounting system</b>	Screws (Rivet hole, M3) Pop rivets (Max size 3.2mm) Industrial Adhesive (optional)

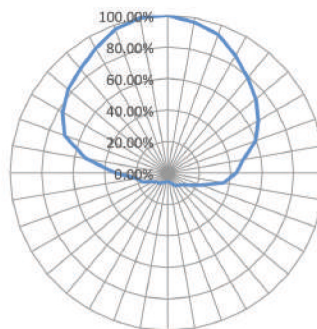
1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

### Functional Specifications

<b>RF protocol</b>	EPC global Class 1 Gen2
<b>Frequency</b>	902-928 (US) ; 865-868 (EU)
<b>IC type (chip)<sup>1</sup></b>	NXP UCODE 8
<b>Memory<sup>2</sup></b>	128 bits EPC, 96 bits TID, User memory (optional)
<b>Material</b>	High-performance engineered polymer, 316L Stainless steel

1. The chip data retention is up to 50 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.

### Radiation Pattern



## Environmental Specifications

Operational temperature	-40°C to +85°C
Survival temperature	-40°C to +250°C
High temperature cycle	+250°C/500hours
Chemical resistance	Various caustic chemicals <sup>1</sup>
IP rating	IP68
Compression strength	181 psi (1250 kPa)
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

1. The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.

## Industry Compliance

RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEX	Compliant, Certified (optional)
Warranty	1 year

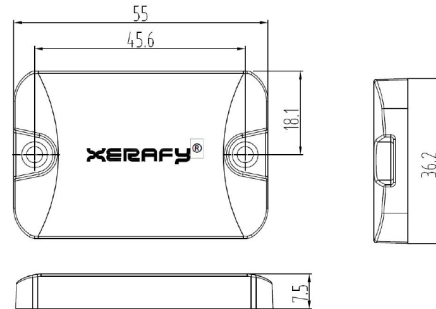
## Order Information

X1130-US100-U8	MICRO Industrial US
X1130-EU100-U8	MICRO Industrial EU
Customization services	Encoding, Printing, Laser Marking, Industrial Adhesives, ATEX Certified Version, Optical Optimized White Case, Metal Backplate, User Memory Version

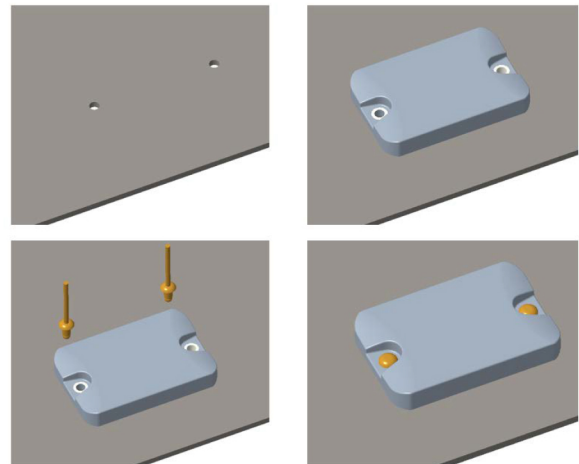


## Product Dimensions and Weight

Dimensions (in)	2.16 x 1.43 x 0.30
Tolerance	+/- 0.02
Dimensions (mm)	55 x 36.2 x 7.5
Tolerance	+/- 0.5
Weight	0.92 oz (26 g)
Packing information	86 pcs /one box



## Installation Instructions



Instructions for optimal performances:

1. Drill two holes on the subject metal surface.  
(ø 4 mm, pitch: 45.6mm)
2. Insert two ø3.2mm (recommended size) rivets on the tag.
3. Fix the tag on the metal surface with a rivet gun.

\* Can also be attached via adhesive / epoxy.

## About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

