Micro^X II-Paint Shop Version

Functional Specifications

RF air protocol	EPCGlobal Class1Gen 2; ISO18000-6C
Operational frequency	UHF 902-928 MHz (US); 866-868 MHz (EU)
IC type	Alien Higgs-3
Memory configuration	96-EPC bits; 512-bit user memory
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years [1]
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	6 months
Applicable surface	Metal surfaces
Material	Engineering-grade nylon polymer
Color	Charcoal
Weight	0.98 oz (28 g)

Performance Characteristics

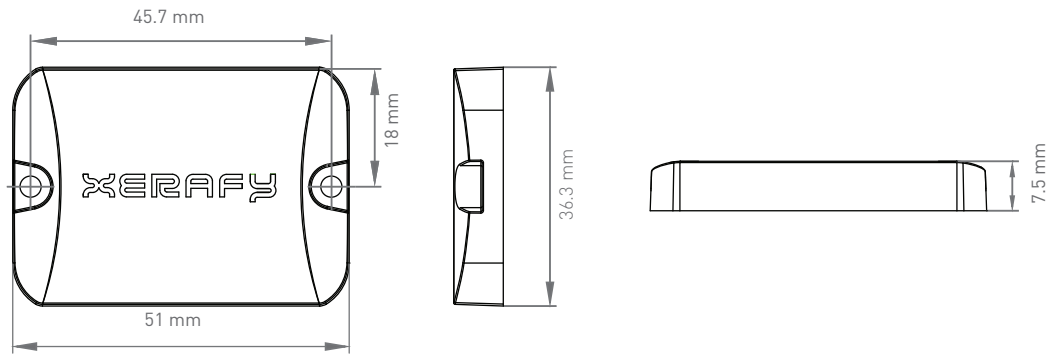|	
Read range on metal (2W ERP) [2]	Up to 33 ft (10 m)
Polarization	Linear

[1] The chip data retention is based on chip operating under general environment conditions.

[2] Actual read range may vary based upon use case and attachment methods.

Environmental Specification and Industry Compliance

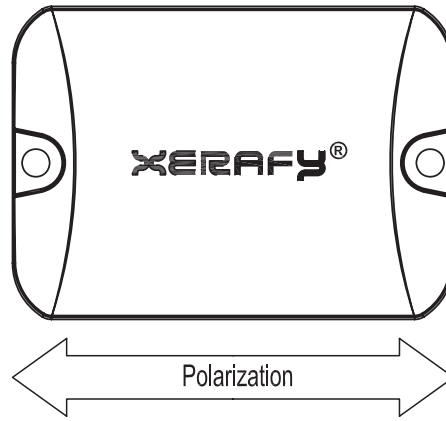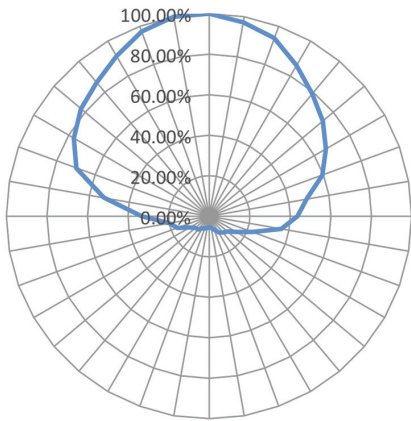|	
RoHS	EU Directive 2011/65/EU
ATEX/IECEx	Certified
Shock	3 ft (1 m) to concrete/granite up to 200 cycles
Compression strength	181 psi (1250 kPa)
IP classification	IP68
Operational temperature	-40°F to +185°F (-40°C to +85°C)
Application temperature	-40°F to +482°F (-40°C to +250°C)
Temperature cycling test	30 Minutes at 250°C; 1 hour cool-down; 600 test cycles
Peak temperature	+482°F / +250°C 6 hours duration

Humidity
     Operational humidity
     Storage humidity
	
	 5%-95% non-condensing
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Chemical resistance [4] No physical or performance changes in: (tested in 186 hour exprosure)	Salt water (15% salinity) / Ethanol / Acetone Industrial rust lubricant / Industrial cleaner Diesel fuel / Gasoline / Engine oil Lsopropanol [3] Soap solution (30%) [3] Sodium hydroxide (10%, pH13) [3] Methanol

Product Dimensions

Dimensions (mm)	51 x 36.3 x 7.5
tolerance	+/- 0.5 mm
Dimensions (in)	2.01 x 1.43 x 0.30
tolerance	+/- 0.02 in
Rivet hole diameter	0.126 in +/-0.008 (3.2 mm +/- 0.2)

[3] The chemical resistance is based on the concentration of solutions and application environment.

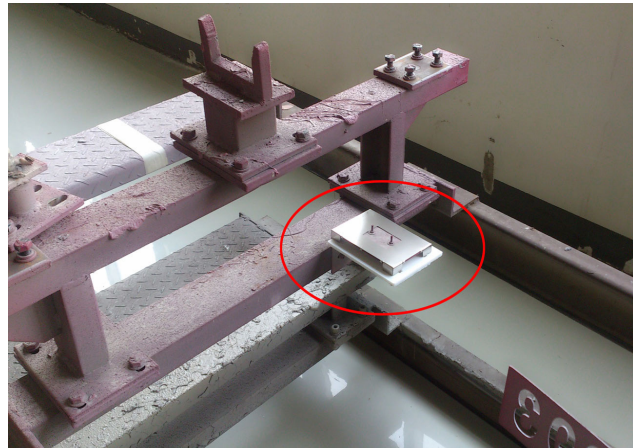[4] Please contact Xerafy for further details on chemical resistance.

Installation instructions

The tag can be mechanically attached using:

- Screws (Rivet hole, M3)
- Pop rivets (Max size 2.4mm)

This tag was used at real paintshop plant.

XERAFY®

Personalization options

Several options are available:

- Tag programming
- Customized laser engraving

Order information

X1130-US130-H3	Paint shop Micro XII US
X1130-EU130-H3	Paint shop Micro XII EU