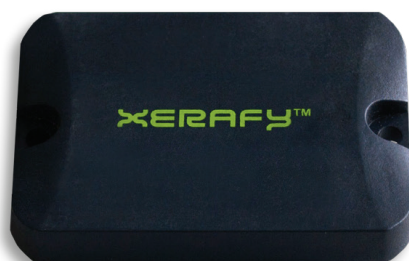


Micro^X II

P/N: X1130-US100-H3 / X1130-EU100-H3



Functional Specifications

RF air protocol	EPC Class 1 Gen 2; ISO18000-6C
Operating 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)	1 year

Performance Characteristics

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

Physical Specifications

Material	Engineering-grade nylon polymer
Mounting system	Rivet hole, ø 0.12 in (3.2 mm); adhesive (optional)
Color	Charcoal

Environmental and Industry Compliance

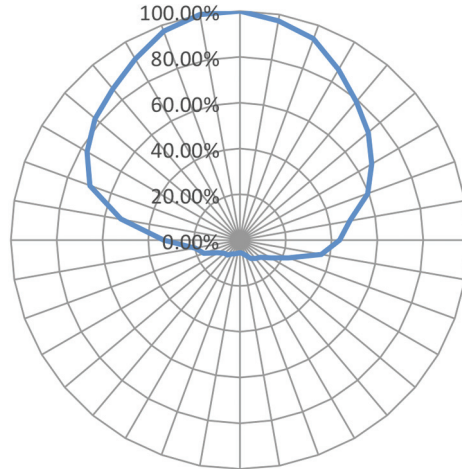
RoHS	EU Directive 2002/95/EC
ATEX	ATEX Compliant



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 antenna power.

Radiation Pattern



Operational and Environmental Specifications

Operational temperature

Cold	-22°F (-30°C)
Dry heat	+185°F (+85°C)
Thermal shock	-22°F to 185°F (-30°C to +85°C); cycled

Application temperature

Cold	-40°F (-40°C)
Dry heat	+482°F (+250°C)

Humidity

Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing

Chemical resistance

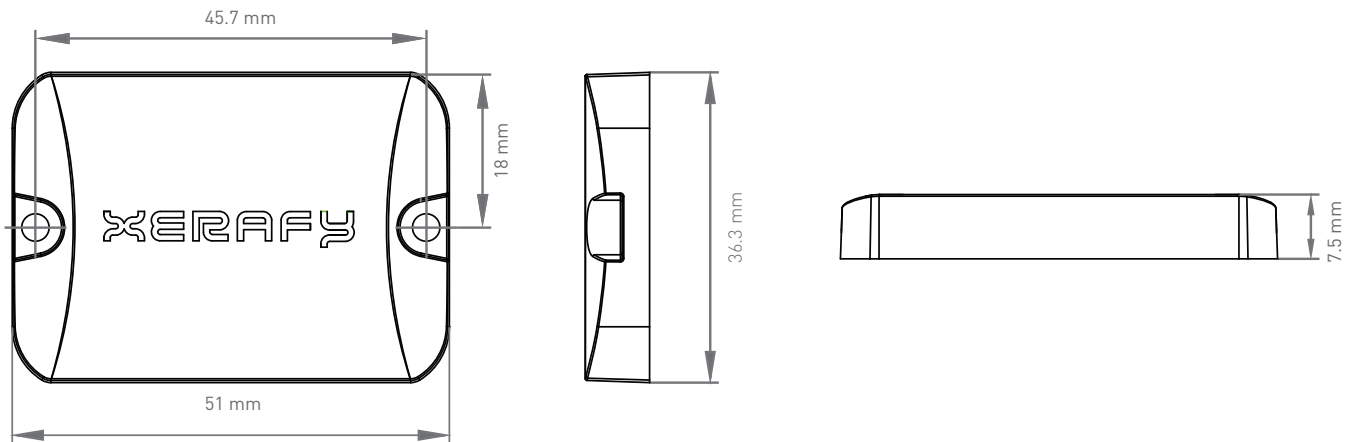
Isopropyl alcohol	48 hours
Industrial cleaner	48 hours
Epoxy resin coolant	48 hours
Industrial rust lubricant	48 hours
Acetone	48 hours
Salt water (15% salinity)	168 hours
Sodium Hydroxide (10% pH 13)	168 hours
Sulfuric acid (10%, pH 2)	168 hours
Engine oil	168 hours
Gasoline	48 hours
Diesel fuel	48 hours
Soap solution (30%)	48 hours
Carboxylic acids	Testing recommended

Shock (drop) 3 ft (1 m) to concrete/granite up to 200 cycles

Compression strength 181 psi (1250 kPa)

IP classification IP68

Product Dimensions and Weight



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)
Weight	0.92 oz (26 g)

【使用上の注意点】

本タグはPA樹脂の2ピース（アウターケースと裏蓋）を超音波溶接して一体化しています。温度変化に伴う内圧変化で膨張収縮を繰り返す際、溶接部分には過大な負荷がかかります。このためタグは平らな金属面に螺子固定することで膨張力からの溶接部分負荷を逃がし耐久性を向上させます。

また本タグは金属面に取付けることで通信性能が向上する設計が施されています。