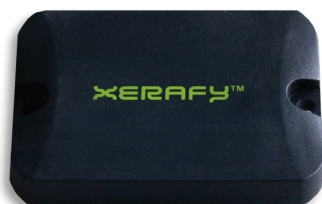


## Micro<sup>X</sup> II



### 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-bit EPC ; 512-bit user memory; 64-bit TID
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F [25°C]
Data retention	Up to 50 years <sup>1</sup>
Warranty (limited)	1 year

### Performance Characteristics

Read range on metal [2W ERP] <sup>2</sup>	Up to 33 ft (10 m)
Polarization	Linear

### Physical Specifications

Material	Engineering-grade nylon polymer
Mounting system	<ul style="list-style-type: none"> <li>• Screws (Rivet hole, M3)</li> <li>• Pop rivets (Max size 2.4mm)</li> <li>• Adhesive (optional)</li> </ul>
Color	Charcoal

### Environmental and Industry Compliance

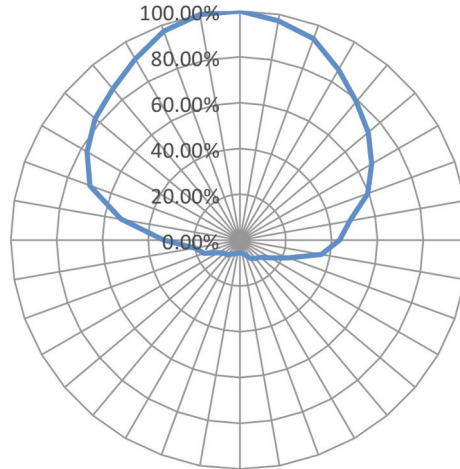
RoHS&&REACH	EU Directive 2011/65/EU, EC1907/2006
CE	Yes
ATEX/IECEX	Certified



<sup>1</sup> The chip data retention is based on chip operating under general environment conditions.

<sup>2</sup> Actual read range may vary based upon use case and antenna power.

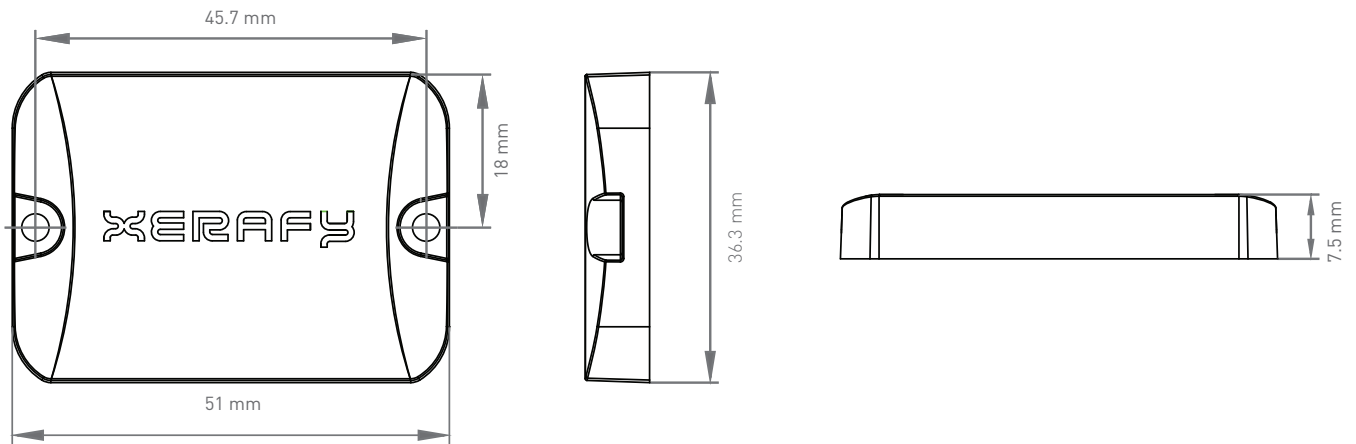
**Radiation Pattern**



**Operational and Environmental Specifications**

<b>Operational temperature</b>	
Cold	-40°F (-40°C)
Dry heat (Long term, days/weeks/years)	+185°F (+85°C)
Thermal shock	-40°F to +185°F (-40°C to +85°C); cycled
<b>Application temperature</b>	
Cold	-40°F (-40°C)
Dry heat (Short term, minutes/hours)	+482°F (+250°C)
<b>Humidity</b>	
Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing
<b>Chemical resistance</b>	
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
Vibration	MIL-STD-810G
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)

**Order information**

X1130-US100-H3	Micro XII US
X1130-EU100-H3	Micro XII EU