## Nano X-II

XEBULA.

The Nano X-II is the best performing RFID-onmetal tag in the industry for its size, with read ranges on metallic assets of up to 20 feet (6 meters).

It's constructed with robust materials and rated IP68 for high reliability and durability in all types of environments.



Superior on-metal performance

Ceramic durability and reliability



Hi-Temp and caustic chemicals



### Performance Characteristics

Read range (handheld) $^{\rm l}$	Up to 14 ft (4 m)
Read range (fixed) <sup>1</sup>	Up to 20 ft (6 m)
Polarization	Linear
Attachment	3M 9495LE Adhesive

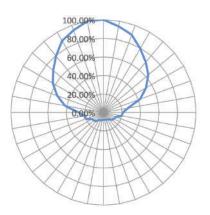
1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

# Functional Specifications RF protocol EPC global Class 1 Gen2 Frequency 902,929 (US) + 845,849 (EU)

Frequency	902-928 (US) ; 865-868 (EU)
IC type (chip) <sup>1</sup>	Alien Higgs-3
Memory	96-EPC bits, 64-bit unique TID, 512-bit user memory
Material	Industry grade polymer

1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

#### **Radiation Pattern**





MRO Tool Tracking

- Manufacturing WIP
- IT Asset Management

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#### **Environmental Specifications**

Operational temperature	-40°C to +85°C
Survival temperature	-40°C to +150°C
IP rating	IP68
Compression strength	167 psi (1150 kPa)
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

Product Dimensions and Weight		
Dimensions (in)	1.25 x 0.51 x 0.20	
Tolerance	+/- 0.02	
Dimensions (mm)	31.7 x 12.8 x 4.97	
Tolerance	+/- 0.5	
Weight	0.61 oz (17.2 g)	



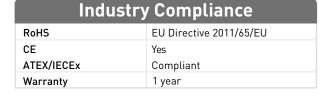


#### Installation Instructions

4.97 mm

Instructions for optimal performances:

- 1.Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc, debris that may affect adhesion.
- 2.Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
- 3.Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
- 4.Do not disturb newly mounted tag for at least 15 minutes to ensure proper adhesive seating.



Order Information		
X1120-US101-H3	Nano X-II US	
X1120-EU101-H3	Nano X-II EU	
Optional service	Encoding / Printing	



#### 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. For Product inquiries: <u>sales@xerafy.com</u> Singapore | China | US | UK

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