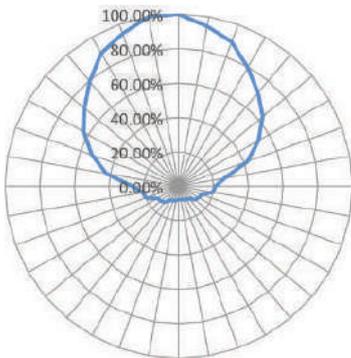




# NANO PLUS

## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> NXP UCODE 9xm
- **Chip memory**<sup>2</sup> 128/496 bits EPC, 96 bits TID, 752/384 bits user memory
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range** fixed<sup>3</sup> Up to 32.81 ft (10 m)
- **Read range** handheld<sup>3</sup> Up to 24.61 ft (7.50 m)
- **Polarization** Linear
- **Radiation pattern on metal**



## Key Features

- + **150°C:** withstand high temperatures
- + **10 m read range:** superior performance-to-size ratio
- + **Industry grade case:** durability
- + **IP68 rating:** waterproof

## Applications

- **MRO tool tracking**
- **Manufacturing WIP**
- **IT asset management**

## Environmental Specifications

### Temperatures



- **Operational** -40°C to +85°C  
-40°F to +185°F
- **Survival** -40°C to +150°C (168 hours)  
-40°F to +302°F

- **IP rating** IP68
- **Compression strength** 167 psi (1,150 kPa)
- **Shock** 3 ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

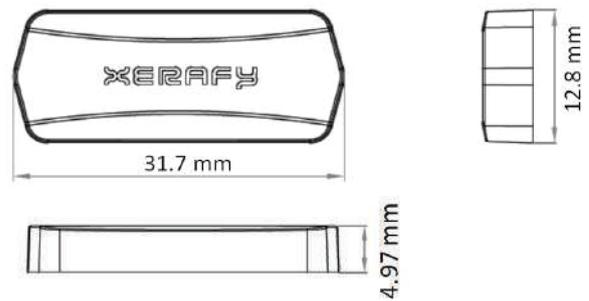
<sup>2</sup> EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

<sup>3</sup> Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



## Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (in)**<sup>1</sup> 1.25 x 0.51 x 0.20
- **Dimensions (mm)**<sup>1</sup> 31.70 x 12.80 x 4.97
- **Weight** 0.18 oz (5 g)



## Mounting Systems

- Industrial adhesive

## Installation Instructions

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 the newly mounted tag for at least 15 minutes to ensure proper adhesive seating.

<sup>1</sup> Tolerance: +/- 0.02; +/- 0.50

## Industry Compliance



## Order Information

NANO Plus US: X1120-US101-U9xm

NANO Plus EU: X1120-EU101-U9xm

## Customization Options

Encoding

Laser Marking

Printing

ATEX Certified Version

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