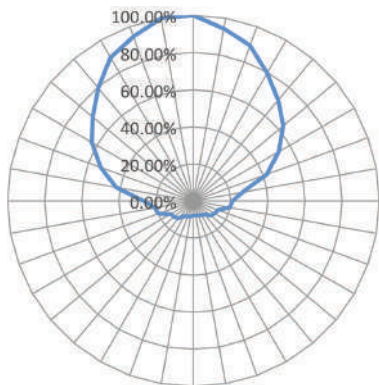




NANO PLUS

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**¹ NXP UCODE 8
- **Chip memory**² 128 bits EPC; 96 bits TID
- **Read range fixed**³ Up to 19.69 ft (6 m)
- **Read range handheld**³ Up to 13.12 ft (4 m)
- **Polarization** Linear
- **Radiation pattern on metal**



Key Features

- + **150°C:** withstand high temperatures
- + **6 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
- **Survival** -40°C to +150°C (168 hours)

- **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

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

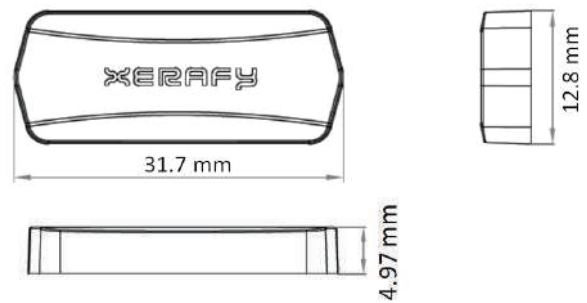
² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ 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)**¹ 1.25 x 0.51 x 0.20
- **Dimensions (mm)**¹ 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.

¹ Tolerance: +/- 0.02; +/- 0.50

Industry Compliance



Order Information

NANO Plus US: X1120-US101-U8

NANO Plus EU: X1120-EU101-U8

Customization Options

Encoding

ATEX Certified Version

Printing

The information provided by Xerafy Singapore Pte. Ltd. is for general information purposes only. All information on the datasheet is provided in good faith. However we make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of any information on the datasheet.

Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of the product or reliance on any information provided on the datasheet. Your use of the product and your reliance on any information on the datasheet is solely at your own risk.

