



METAL SKIN PLATINUM

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);
865-868 MHz (EU)

NXP:

- **IC type (chip)**¹ NXP UCODE 9
- **Chip memory**² 96 bits EPC; 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range on metal**³ Up to 16.40 ft (5 m)
- **Read range off metal**³ Up to 6.56 ft (2 m)

Impinj:

- **IC type (chip)**¹ Impinj Monza R6-P
- **Chip memory**² 128 bits EPC; 96 bits TID;
32 bits user memory
- **Write cycles** 100,000 times
- **Data retention** 50 years
- **Read range on metal**³ Up to 16.40 ft (5 m)
- **Read range off metal**³ Up to 6.56 ft (2 m)

- **Polarization** Linear
- **Radiation pattern**

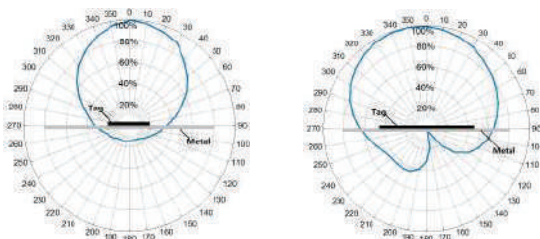
Key Features

- + **Flexible label:** for curved surfaces
- + **Multi-surface:** for on/off metal asset
- + **Printable:** human and computer-readable
- + **IP68 rating:** waterproof

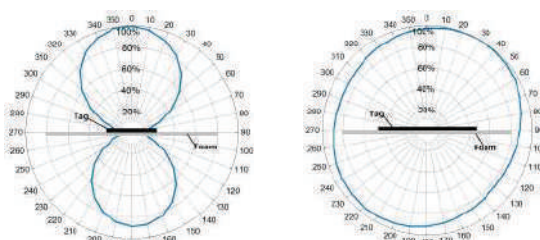
Applications

- **Industrial supply chain**
- **RTI management**
- **Warehouse automation**
- **Automated inventory**

On metal-Horizontal / Vertical



Off metal-Horizontal / Vertical



Environmental Specifications

Temperatures



- Operational -40°C to +85°C
-40°F to +185°F
- Survival -40°C to +85°C
-40°F to +185°F

- **IP rating** IP68
- **Compression strength** 14 psi (97 kPa)
- **Printer compatibility** SATO CL4NX, Zebra ZT411R, Postek TX3r, TSC Printronix T6000e, etc.
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

¹ The chip data retention is based on the chip operating under general environment conditions.

² EPC can be re-programmed or permanently locked, can not be password protected. TID is locked and unique at the point of manufacturing.

³ Actual read range may vary based upon use case and antenna power.

Physical Specifications

- **Material** White thermal transfer face stock

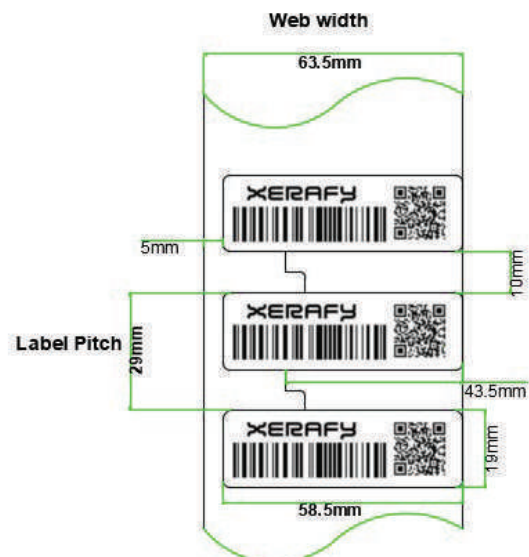
NXP:

- Dimensions (in)¹ 2.30 x 0.75 x 0.04
- Dimensions (mm)² 58.50 x 19 x 1
- Packaging 500pcs/roll
- Weight (roll) 1.32 lbs (0.60kg)

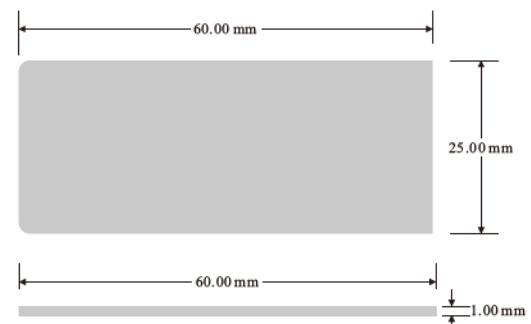
Impinj:

- Dimensions (in)¹ 2.36 x 0.98 x 0.04
- Dimensions (mm)² 60 x 25 x 1
- Packaging 500pcs/roll
- Weight (roll) 1.76 lbs (0.80 kg)

NXP:



Impinj:



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 label by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the label in desired tagging location and firmly apply even pressure to the label for 5 seconds.
4. Do not disturb the newly mounted label for at least 15 minutes to ensure proper adhesive seating.

¹ Tolerance: Length/Width= +/- 0.02; Thickness= +/- 0.008

² Tolerance: Length/Width= +/- 0.50; Thickness= +/- 0.200

Industry Compliance



Order Information

NXP

METAL SKIN Platinum US: X50A3-US011-U9

METAL SKIN Platinum EU: X50A3-EU011-U9

Impinj

METAL SKIN Platinum US: X6025-US011-R6P

METAL SKIN Platinum EU: X6025-EU011-R6P

Customization Options

Encoding

Printing

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