



# METAL SKIN MERCURY

## **Technical Specifications**

- RF protocol 1S0/IEC 18000-6C (EPC Gen2)
- Frequency 902-928 MHz (US); 865-868 MHz (EU)

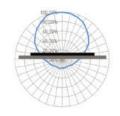
#### NXP:

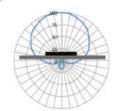
- IC type (chip)<sup>1</sup> NXP UCODE 9
- Chip memory<sup>2</sup> 96 bits EPC, 96 bits TID
- Read range on metal<sup>3</sup> Up to 26.25 ft (8 m)
- Read range off metal<sup>3</sup> Up to 19.69 ft (6 m)

## Impinj:

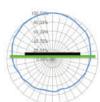
- IC type(chip)<sup>1</sup> Impinj Monza R6-P
- Chip memory<sup>2</sup> 128 bits EPC; 96 bits TID; 32 bits user memory
- Read range on metal<sup>3</sup> Up to 26.25 ft (8 m)
- Polarization Linear
- Radiation pattern

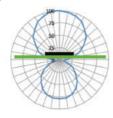
#### On metal-Horizontal / Vertical





## Off metal-Horizontal / Vertical





## **Key Features**

- + Flexible label: for curved surfaces
- + Multi-surface: on metal or on liquid
- + 8 m read range: read from a distance
- + **Printable:** human and computer-readable
- + IP68 rating: waterproof

## **Applications**

- Global supply chain
- Logistics

Version No: 25 08 13

- Datacenter servers
- E-commerce





## **Environmental Specifications**

### **Temperatures**



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

- IP rating IP68
- Storage Humidity 50 ± 15%RH
- Compression strength 92 psi (634 kPa)
- Vibration MIL-STD-810G
- Printer compatibility SATO CL4NX, Zebra ZT411R, Postek TX3r, TSC Printronix T6000e, etc.
- Warranty 1 year

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

## **Physical Specifications**

• Material White thermal transfer face stock

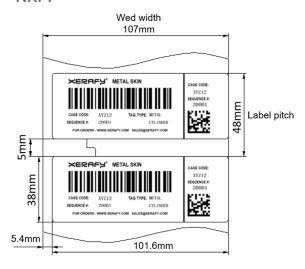
#### NXP:

- Dimensions (in)1 4 x 1.50 x 0.04
- Dimensions (mm)<sup>1</sup> 101.60 x 38 x 1
- Packaging 300pcs/roll
- Weight (roll) 1.98 lbs (0.90 kg)

#### Impinj:

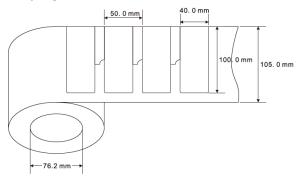
- Dimensions (in)<sup>1</sup> 3.94 x 1.57 x 0.04
- Dimensions (mm)<sup>1</sup> 100 x 40 x 1
- Packaging 300pcs/roll
- Weight (roll) 2.65 lbs (1.20 kg)

#### NXP:



## Impinj:

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<sup>&</sup>lt;sup>2</sup> EPC can be re-programmed or permanently locked, can not be password protected. TID is locked and unique at the point of manufacturing. <sup>3</sup> Actual read range may vary based upon use case and antenna power.



## **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 I ocation 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.

## **Industry Compliance**



















# **Order Information**

NXP

METAL SKIN Mercury US: X51A0-US100-U9

METAL SKIN Mercury EU: X51A0-EU100-U9

**Impini** 

METAL SKIN Mercury US: X1040-US011-R6P

## **Customization Options**

Encoding	Printing

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<sup>&</sup>lt;sup>1</sup> Tolerance: +/- 0.004; +/- 0.100