



# METAL SKIN TITANIUM 48 LIQUID

## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> NXP UCODE 8
- **Chip memory**<sup>2</sup> 128 bits EPC; 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range**<sup>3</sup> fixed<sup>3</sup>
  - Up to 16.40 ft (5 m) on liquid
  - Up to 6.56 ft (2 m) on metal
- **Read range** off metal<sup>3</sup> Up to 3.28 ft (1 m)
- **Polarization** Linear

## Key Features

- + **Small size:** fits small asset
- + **5m read range on liquid:** read on bottles or liquid container
- + **Printable:** human and computer-readable
- + **Flexible label:** for curved surfaces
- + **IP68 rating:** waterproof

## Applications

- Food and beverage
- Medicines and pharmacy
- Liquid bottles and containers

## 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
- **Storage Humidity** 50±15%RH
- **Printer compatibility** SATO CL4NX, Zebra ZT411R, Postek TX3r, TSC Printronix T6000e and T4000, etc.
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

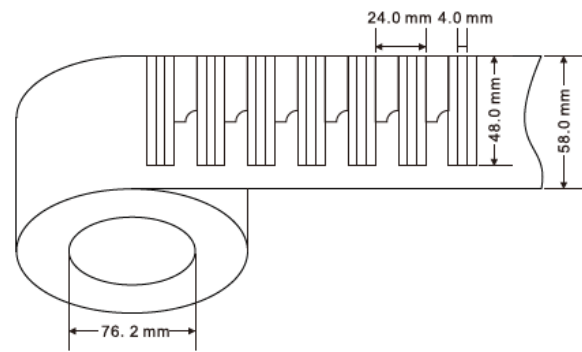
<sup>1</sup> The chip data retention is up to 20 years, based on chip operating under general environment conditions.

<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.

## Physical Specifications

- **Material** White thermal transfer face stock
- **Dimensions (in)**<sup>1</sup> 1.89 x 0.16 x 0.04
- **Dimensions (mm)**<sup>1</sup> 48 x 4 x 1
- **Packaging** 1000pcs/roll
- **Weight (roll)** 1.76 lbs (0.80 kg)



## 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.

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

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

## Industry Compliance



## Order Information

METAL SKIN Titanium 48 Liquid EU: X4804-EU011-U8

## Customization Options

Encoding

Printing

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