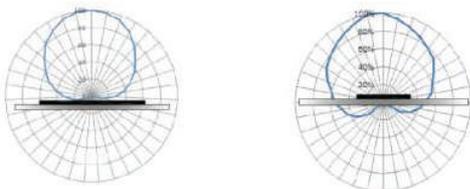


# METAL SKIN TITANIUM M830

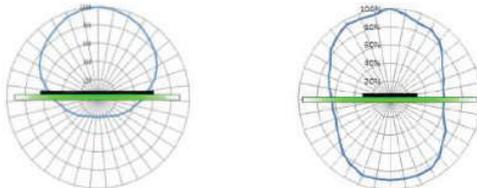


## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);  
865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> Impinj M830
- **Chip memory**<sup>2</sup> 128 bits EPC; 96 bits TID
- **Write cycles** 10,000 times
- **Data retention** 10 years
- **Read range on metal**<sup>3</sup>  
Up to 11.48 ft (3.50 m) US  
Up to 9.84 ft (3 m) EU
- **Read range off metal**<sup>3</sup>  
Up to 6.56 ft (2 m) US  
Up to 4.27 ft (1.30 m) EU
- **Polarization** Linear
- **Radiation pattern**  
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** 58 psi (400 kPa)
- **Printer compatibility** Zebra ZT411R,  
SATO CL4NX, Postek TX3r,  
TSC Printronix T6000e, etc.
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

## Key Features

- + **Small size:** fits small asset
- + **Printable:** human and computer-readable
- + **Flexible label:** for curved surfaces
- + **Cost effective:** for high volume
- + **IP68 rating:** waterproof

## Applications

- Retail item-level tagging
- Asset authentication
- Warehouse management
- IT asset tracking
- Luxury & high-value asset management

<sup>1</sup> The chip data retention is up to 10 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

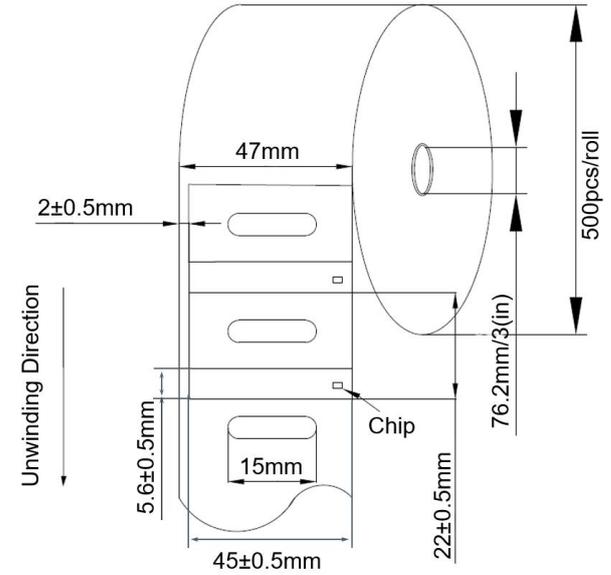
- **Material** White thermal transfer face stock
- **Reel core material:** Cardboard
- **Reel core inner dimension:** 76.2mm/3(in)
- **Dimensions (in)<sup>1</sup>** 1.77 x 0.22 x 0.04
- **Dimensions (mm)<sup>1</sup>** 45 x 5.60 x 1
- **Packaging** 500pcs/roll
- **Weight (roll)** 0.88 lbs (0.40 kg)

## 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 M830 US:  
X5220-US011-M830

METAL SKIN Titanium M830 EU:  
X5220-EU011-M830

## Customization Options

Encoding

ATEX Certified Version

Printing

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