

## Titanium Metal Skin



Xerafy's Titanium Metal Skin is a revolutionary RFID label for smart tagging both metallic and non-metallic assets. It's extremely flexible and has a low profile to fit small assets like smart phones and tablets. With the upgraded stronger adhesive and price down, the Titanium is more cost effective and versatile for a wide range of applications from product authentication and IT asset tracking, to global tracking of assets shipped and anti-counterfeiting of high value items and medical supplies.



Small size



Performs reliably on and off metal



Printable



Lightweight and flexible with paper-thin profile



cost effective label for metallic assets



- Product authentication
- IT asset and laptop tracking
- Radio and mobile equipment
- Foil-based packaging tracking

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### Performance Characteristics

|                                   |                           |
|-----------------------------------|---------------------------|
| Read range on metal <sup>1</sup>  | Up to 4 ft (1.2 m)        |
| Read range off metal <sup>1</sup> | Up to 2 ft (0.6 m)        |
| Polarization                      | Linear                    |
| Mounting system                   | High performance adhesive |

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

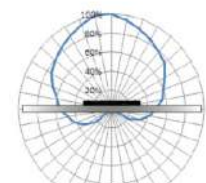
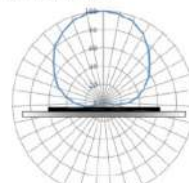
### Functional Specifications

|                             |   |
|-----------------------------|---|
| RF protocol                 | EPC global Class 1 Gen2                       |
| Frequency                   | 902-928 (US) , 865-868 (EU)                   |
| IC type (chip) <sup>1</sup> | Impinj M750                                   |
| Memory                      | 96 bits EPC, 96 bits TID, 32 bits user memory |
| Face material               | White thermal transfer face stock             |

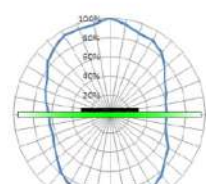
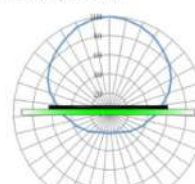
1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.
2. This product utilizes an Impinj M5 chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

### Radiation Pattern

On metal-Horizontal / Vertical



Off metal-Horizontal / Vertical



## Environmental Specifications

|                         |                                |
|-------------------------|--------------------------------|
| Operational temperature | -40°C to +85°C                 |
| Survival temperature    | -40°C to +85°C (long term)     |
| Shock (drop)            | 3 ft (1 m) to concrete/granite |
| Vibration               | MIL-STD-810G                   |
| Compression strength    | 58 psi (400 kPa)               |
| Printer compatibility   | Zebra R110Xi4                  |

## Industry Compliance

|            |                         |
|------------|-------------------------|
| RoHS       | EU Directive 2011/65/EU |
| CE         | Yes                     |
| ATEX/IECEX | Compliant               |
| Warranty   | 1 year                  |

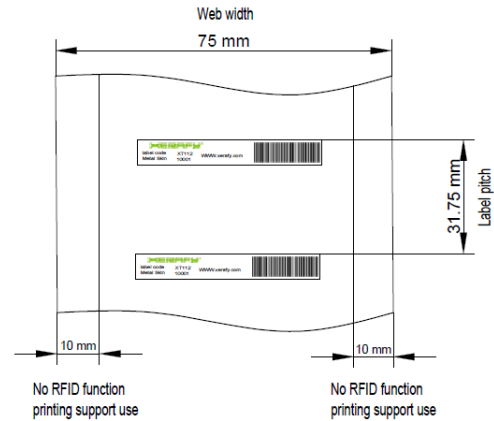
## Order Information

|                  |                                   |
|------------------|-----------------------------------|
| X5120-US100-M750 | Titanium Metal Skin Label in Roll |
| X5120-EU100-M750 | Titanium Metal Skin Label in Roll |
| Optional service | encoding / printing               |



## Product Dimensions and Weight

|                   |                    |
|-------------------|--------------------|
| Dimensions (in)   | 1.77 x 0.22 x 0.03 |
| Tolerance         | +/- 0.04           |
| Dimensions (mm)   | 45 x 5.6 x 0.86    |
| Tolerance         | +/- 0.1            |
| Delivery format   | On roll            |
| Quantity per roll | 750                |
| Weight(roll)      | 2.54 lbs (1.15 kg) |



## Installation Instructions

Instructions for optimal performances:

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 newly mounted label for at least 15 minutes to ensure proper adhesive seating.

### About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

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