

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 ¹	Up to 4 ft (1.2 m)
Read range off metal ¹	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.

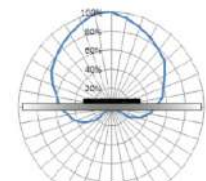
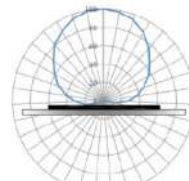
Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) , 865-868 (EU)
IC type (chip) ¹	Impinj Monza 5 ²
Memory	128-EPC bits, 48-bit serialized TID
Face material	White thermal transfer face stock

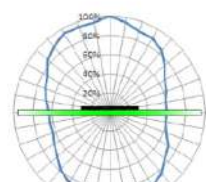
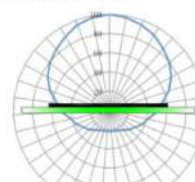
1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.
2. This product utilizes an Impinj M5 chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

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

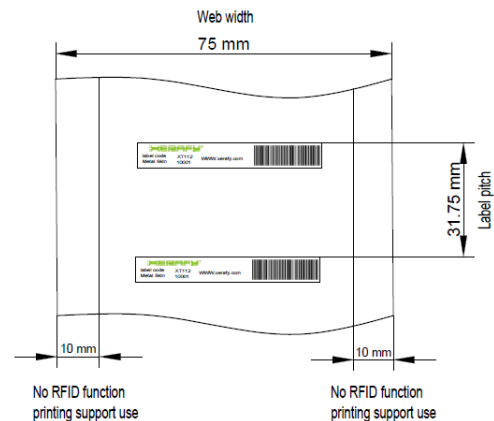
Order Information

X5020-US100-M5	Titanium Metal Skin Label in Roll
X5020-EU100-M5	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.

For Product inquiries: sales@xerafy.com
Singapore | China | US | UK

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