Titanium Metal Skin

The Xerafy Titanium Metal Skin is an Industrial RFID Label engineered to track the smallest assets.

Working both On-Metal and Off, its industry-strength adhesive brings a cost-effective RFID tracking solution for a wide range of applications from IT assets to product authentication, 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

Performance Characteristics

Read range on metal[1]	Up to 8 ft (2.5 m)
Read range off metal[1]	Up to 3 ft (1 m)
Polarization	Linear
Mounting system	High performance adhesive

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

Functional Specifications

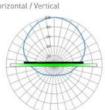|	
RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) , 865-868 (EU)
IC type (chip)[1]	NXP UCODE 9
Memory	96 bits EPC, 96 bitsTID
Face material	White thermal transfer face stock

1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.
2. This product utilizes an NXP UCODE 9 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.
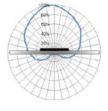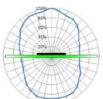
Radiation Pattern
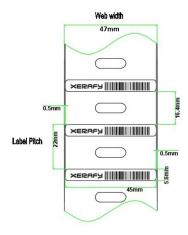
On metal-Horizontal / Vertical

Off metal-Horizontal / Vertical

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

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✔RoHS 2002/95/EC CE Ex REACH COMPLIANCE

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	Sato CL4NX

Industry Compliance

RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEx	Compliant
Warranty	1 year

Order Information

X5220-US100-U9	Titanium Metal Skin US
X5220-EU100-U9	Titanium Metal Skin EU
Optional service	encoding / printing

Product Dimensions and Weight

Dimensions (in)	1.77 x 0.22 x 0.04
Tolerance	+/- 0.02, H=0.04(+/- 0.004)
Dimensions (mm)	45 x 5.6 x 1
Tolerance	+/- 0.5, H=1(+/- 0.1)
Delivery format	On roll
Quantity per roll	500
Weight(roll)	0.88 lbs (0.4 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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