XERAFY®

Xplorer Surface

The Xplorer Surface frequency range is optimized for operations on the surface. It brings Xplorer features to operations in the field, away from downhole extreme conditions. Its stainless steel shell makes it to withstand high temperature, chemical corrosion and impact.

Shocks and vibrations

Embeddable

Unique RF design

IP68

Hi-Temp and chemicals

- Yard Management for Oil and Gas pipes
- Pipe maintenance
- Heavy equipment in Mining
- Building sites in Construction
- High-pressure ovens in Manufacturing

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Performance Characteristics

Read range (handheld)[1]	Up to 3.28 ft (1.0 m)
Read range (fixed)[1]	Up to 4.92 ft (1.5 m)
Polarization	Linear
Mounting system	Snap in, embedded

1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.
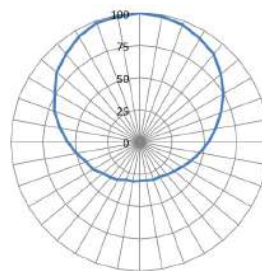
Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928MHz (US) ; 865-868MHz (EU)
IC type (chip)[1]	Alien Higgs-3
Memory	96-EPC bits, 64-bit unique TID, 512 -bit user memory
Material	Stainless steel 316L

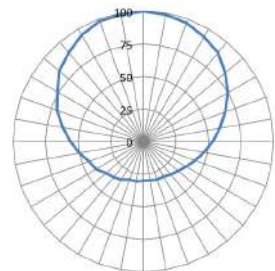1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

Radiation Pattern

Horizontal

Vertical

RAIN RFID   ETSI   FC   RoHS 2002/95/EC   CE   Ex   REACH COMPLIANCE

22 05 16

Environmental Specifications

Operational temperature	-40°C to +85°C
Survival temperature	-50°C to +250°C
Chemical resistance	Various caustic chemicals[1]
IP rating	IP68
Compression strength	13,000 psi (89 MPa)
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

1. *The chemical resistance is based on the concentration of solutions and application environment.Please contact Xerafy for further details on chemical resistance.*

Industry Compliance

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

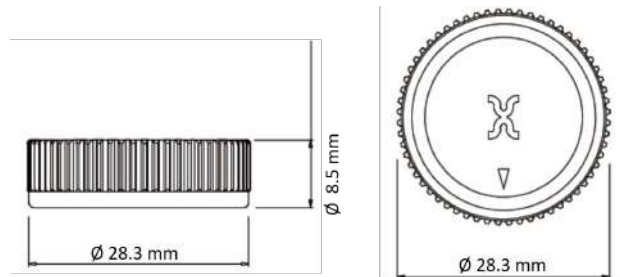## Order Information

X1115-US111-H3	Xplorer Surface US
X1115-EU111-H3	Xplorer Surface EU
Optional service	Encoding / Printing / Laser etching

Product Dimensions and Weight

Dimensions (in)	ø 1.11 x 0.33
Tolerance	+/- 0.004
Dimensions (mm)	ø 28.3 x 8.5
Tolerance	+/- 0.1
Weight	0.89 oz (25.4 g)

Ø 8.5 mm

Ø 28.3 mm

Ø 28.3 mm

Embedding Instructions

1. Drill a blind hole on the asset surface at the recommended diameter and depth by drilling machine.
2. Clean the hole.
3. Place the Xplorer tag onto the asset near the hole with the side facing up. For maximum reading range, the mark on Xplorer surface need to face to longer free metal surface side
4. Use a press, such as an arbor press or a drill-press, and chuck the driver tool in the press
5. Visually align the asset and nested Xplorer with the driver tool.
6. Use the press to install the Xplorer until it is 0.5 mm below the surface.

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
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