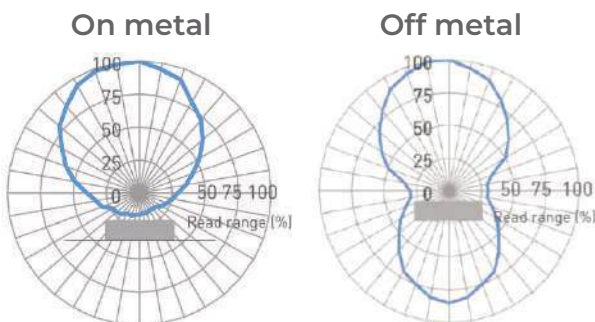# XERAFY

NFC RTI OUTDOOR

Technical Specifications

- **HF protocol** ISO 14443A
- **Frequency** 13.56 MHz (HF)
- **IC type** (HF chip)[1] NXP NTAG213
  Chip memory (HF)[2] 7 bytes UID;
  144 bytes user memory
- **Read range** HF[3] Up to 0.03 ft (1 cm)
- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);
  865-868 MHz (EU)
- **IC type** (UHF chip)[1] Impinj R6-P
- **Chip memory** (UHF)[2] 128/96 bits EPC;
  96 bits TID; 32/64 bits user memory
- **Read range** UHF[3] Up to 29.53 ft (9 m)
- **Polarization** Linear

On metal

Off metal

Key Features

- + **Smart phone:** infrastructure-light technology
- + **Battery-Free:** long-life passive tracking devices
- + **Durable:** designed for industrial durability
- + **9 m read-range:** combined with UHF RFID for longer range

Applications

- Legacy tracking systems
- Oil and Gas assets
- RTI management
- Production logistics

Environmental Specifications

Temperatures

- Operational -40°C to +75°C
- Survival -40°C to +75°C

- **IP rating** IP68
- **Compression strength** 26 psi (180 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[1] The chip data retention is up to 50 years, based on chip operating under general environment conditions.
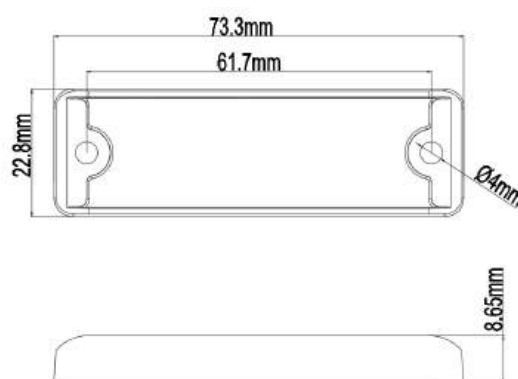[2] EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Fix reader on metal

Physical Specifications

- **Material** Anti-UV industry grade polymer
- **Dimensions (in)[1]** 2.88 x 0.90 x 0.34
- **Dimensions (mm)[1]** 73.30 x 22.80 x 8.65
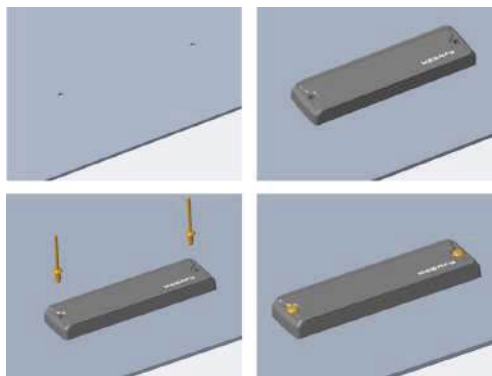- **Weight** 0.39 oz (11 g)

Mounting Systems

· Rivets
· Cable tie (optional)
· Industrial adhesive (optional)

Installation Instructions

Use M3 rivets for attachment:

1. Drill two holes (ø 3.50) in the metal surface, pitch: 61.70 mm.

2. Utilize M3 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.

* Other installation options: ahesive / cable tie (based on your application environment)

[1] Tolerance: +/- 0.02; +/- 0.50

Industry Compliance

Order Information

NFC RTI OUTDOOR US: X0316-US110-NTAG213	NFC RTI OUTDOOR EU: X0316-EU110-NTAG213

Customization Options

Encoding	Printing
Laser Marking	Industrial Adhesives
ATEX Certified Version	