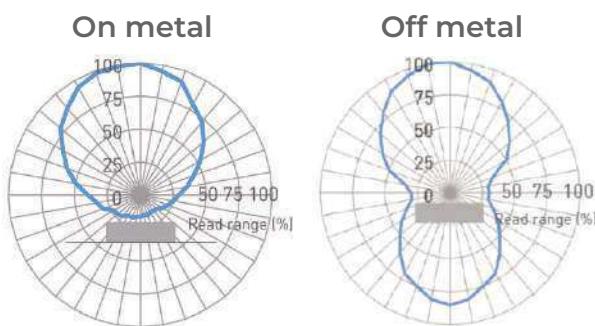




# NFC RTI OUTDOOR

## Technical Specifications

- **HF protocol** ISO 14443A
- **Frequency** 13.56 MHz (HF)
- **IC type (HF chip)**<sup>1</sup> NXP NTAG213  
**Chip memory (HF)**<sup>2</sup> 7 bytes UID;  
144 bytes user memory
- **Read range HF**<sup>3</sup> 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)**<sup>1</sup> Impinj R6-P
- **Chip memory (UHF)**<sup>2</sup> 128/96 bits EPC;  
96 bits TID; 32/64 bits user memory
- **Read range UHF**<sup>3</sup> Up to 29.53 ft (9 m)
- **Polarization** Linear



## Environmental Specifications

### Temperatures

- Operational -40°C to +85°C  
-40°F to +185°F
- Survival -40°C to +85°C  
-40°F to +185°F



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

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

<sup>2</sup> EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

<sup>3</sup> Fix reader on metal

## Key Features

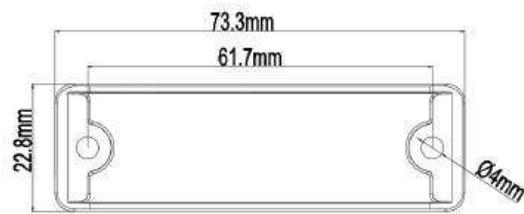
- + **Smart phone:** infrastructure-light technology
- + **Battery-Free:** long-life passive tracking devices
- + **Durable:** designed for industrial durability
- + **9 m read-range:** combined with UHF RFID for longer range

## Applications

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

## Physical Specifications

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



## Mounting Systems

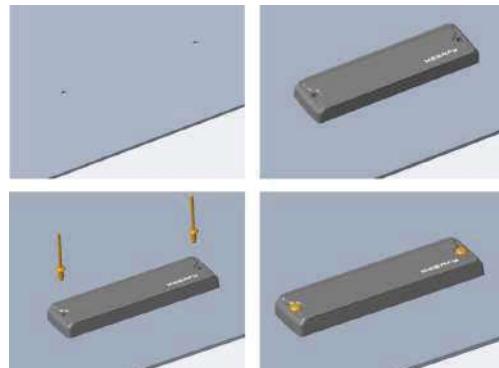
- Rivets
- Cable tie (optional)
- Industrial adhesive (optional)

## Installation Instructions

Use M3 rivets for attachment:

1. Drill two holes ( $\varnothing$  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: adhesive / cable tie (based on your application environment)



<sup>1</sup> 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

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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