



Long Range Universal RFID Tag

UNIVERSAL PRODUCT LINE

You asked for longer read range and we delivered! Our new Long Range Universal RFID Tag is the latest member of our flagship product line that boasts a 55 ft. read range on metal surfaces. That's nearly twice the read range of our current best-selling Universal RFID Asset Tag! This exceptional read range for a passive RFID tag on metal makes the new Long Range Universal RFID Tag a great choice for long-distance applications.

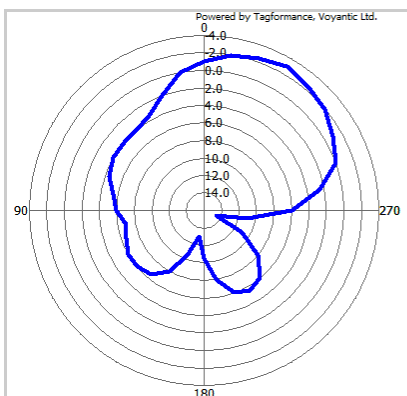
Material and Design Specifications

- Overall dimensions: 3.125" x 1.375" x 0.085" to 0.087" adhesive dependent (79.38 x 34.93 mm x 2.16 to 2.21 mm)
- 0.002" (0.051 mm - standard) and 0.0035" (0.089 mm - optional) high performance pressure-sensitive acrylic adhesive
- 0.002" (0.051 mm) thick polyester label wrapped around 0.063" (1.6 mm) closed cell foam, total product thickness is approximately 0.09" (2.3 mm)
- Preprinted material (digital printing process)

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (FCC band)
- **Chip:** Impinj M830
- **Read range on metal** Up to 55 ft. (16.76 m)
- **Polarization** Linear

Radiation Pattern



Key Features

- Up to 55 ft. (16.76+ m) read range on metal surfaces
- Subsurface printing on durable polyester protects printed copy against moderate solvents/acids
- Digital printing process provides for greater print capacity with detailed logos or special designs
- Pre-programmed/pre-encoded is standard

Applications

- Asset Tracking
- Work-in-Process
- Tool Tracking

Environmental Specifications

- Minimum Application Temperature 50 °F (10 °C)
- Temperature Range: -40 °F to 175 °F (-40 to 79.4 °C)
- UV Resistance: Indoor/outdoor use
- Chemical Resistance: Can withstand moderate cleaning chemicals and brief exposure to solvents



Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Soak Test: This rating measures barcode readability on various labels after being exposed to chemicals listed below for a 6-hour soak.

Product	Water	Glass Cleaner	Bathroom Cleaner	Alcohol	Acetone	Sodium Hydroxide	Nitric Acid	Hydrochloric Acid	Brake Fluid	Diesel
Long Range Universal RFID Tag	NE	NE	NE	NE	NR	NE	NE	NE	NE	NE

Key: NE = No Effect, NR = Not Recommended

Heat Test

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200 °F (93.3 °C)

Installation Instructions

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 tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance

