

UHF | RAIN - Label CT - Flag Tag

- Available with various UHF | RAIN - RFID chips
- Many different formats available
- Many customization options
- Perfect for high value items
- Best performance in class



UHF | RAIN - Flag Tag Future proof item tracking

CRAFT Technologies RAIN RFID Flag Tag is an innovative and cost-efficient RFID solution designed for tagging everyday objects with metallic or metallized surfaces. Its unique design allows it to outperform competing on-metal RFID technologies in retail, pharma, and industrial applications.

By utilizing the metal surface as part of the antenna structure, the RAIN RFID Flag Tag achieves superior performance while remaining more cost-effective than traditional foam-based inlays and hard tags. With a compact form factor it features a foldable design that creates an exposed flag significantly boosting read distances—up to 8 meters depending on object size and geometry.

CRAFT Technologies RAIN RFID Flag Tag enhances cashierless checkout systems in retail by enabling fast and efficient product scanning. In pharma industry, it allows precise tracking of thousands of high value goods, ensuring efficiency and safety in large-scale operations.

Powered by the latest NXP, Impinj or Alien Technologies chips, the Flag Tag features Autotune functionality for peak efficiency, even in dynamic environments. It supports RAIN RFID technology, complies with GS1 and ISO standards, and is compatible with RFID printers for seamless integration into existing workflows.

Common Applications

- Chemical Industry
- Pharma Industry
- Industry 4.0
- Liquor & Wine Industry
- Jewelry Industry

CRAFT TECHNOLOGIES

UHF | RAIN - Flag Tag

Chemicals & Liquids
Objects with round surfaces

Various metal objects
Pharma packaging

TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	860 - 960 MHz
Supported Standards	IISO/IEC 18000-63 (RAIN RFID / EPC Global Gen2 V2)
Reading Distance	Up to 10 m (Depending on environment, reader and exact label type)
Available Chip Types	Standard: NXP UCode 9 On Request: All chips from NXP, Impinj, Alien, ST and EM

Physical Characteristics

Dimension	Standard body size: 55 x 30mm Standard antenna size: 40 x 20 mm
Weight	< 1g
Material	PET + Etched Aluminium Antenna + Double-sided adhesive + Release liner
IP Protection	-

Certifications & Compliances

Certifications	CE, REACH & RoHS
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Environmental Characteristics

Temperature	Applying temperature: 10 - 40°C Operating temperature: -20 - 50°C Storage temperature: -40 - 85°C
Humidity	20% - 80%RH
Chemical Resistance	-
Shock & Vibration	-

Customization Options

Available Colors	Standard colors: white
Available Options	Pre-Printing, data encoding and customized sizes

Usage Options

Environments	Chemical & Pharma Production, Healthcare and Liquor Industry
Key Facts	Printable PET Layer and Permanent Adhesive
Mounting Methods	Self Adhesive