UHF RFID LAUNDRY TAG

- Product Specifications -



- **Model:** RS-RLT016
- **Material:** Polyester+RFID Chip
- **Frequency:** UHF 860~960MHz
- **Size:** 60x20mm or Customized
- **Chip:** NXP Ucode 8/9, IMPINJ R6-P/MONZA M4QT etc.
- **Protocol:** EPC Class1 Gen2; ISO18000-6C
- **Reading Distance:** 3-7m (Based on antenna & reader)
- **Storage Area:** 128Bit(EPC), 32Bit(User), 32Bit(Acess Password)
- **Read/Write Times:** ≥100,000 times
- **Operating Temperature:** －25℃至＋120℃
- **Weight:** 0.5g/pcs
- **Packing:** 200pcs/bag，5000pcs/carton

Product Description

With excellent reading performance and the highest thermal and mechanical resistance, this new UHF RFID Laundry Tag can be inserted in to the narrow hams of garments and other kinds of textile products, which is suitable for industrial application and private wear.

Key Features

- More than 200 industrial laundering cycles;
- 100% polyester material;
- Soft, flexible and bendable;
- 100% EPC write tested;
- Surpassed reading performance;
- Good chemical and corrosion resistance;
- Materials and design are tested for reliability.





Application

Linen and Laundry Management Tracking for Army/School/Hospital Uniforms, Hotel Bedsheets, Clothing Brands etc.

- Automate operational process during laundry.
- Improve the accuracy of information between the laundry and its customersGood chemical and corrosion resistance.



Technical Parameters

Physical Characteristics		
Material	UHF module: Encapsulated chip epoxy; Tag: 50% cotton, 50% polyester.	
Size	60x20mm, 87x17mm, 75x15mm, 70x15mm, 60x25mm, , 58x15mm, 50x16mm	
Color	White	
Operating Temperature	-40~ 85℃ (-40~185℉)	
Storage Temperature	-40~120℃ (-40~248℉), 50% RH	
Wash Cycles	≥200 industrial wash cycles from ship date.	
Electrical Characteristics		
Protocol	EPC Class1 Gen2；ISO18000-6C	
Frequency	UHF 860-960MHZ (US Standard，Or customize other specific frequency.)	
Chip Type	NXP Ucode 8	
Memory	EPC 128bits,User 32bits,Acess Password 32bits	
TID	TID 96bits (The TID number is globally unique & cannot be modified.)	
Read/Write Times	≥100,000 times	
Data Storage	10 years	
Reading Distance *The final read range depends on RFID Reading equipment and application environment.	Fixed Reader	60*20mm: 5.5m (18 feet)
		70*15mm: 6m (20 feet)
		87*17mm: 7m (22 feet)
	Handheld Reader	60*20mm: 4m (13 feet)
		70*15mm: 4.5m (15 feet)
		87*17mm: 5m (16 feet)
Warranty	2 years or 200 washes (whichever comes first)	
Laundry Cycle Performance		
Maximum Temperature	220℃ (428℉), 30s, 2.5 bars	
Washing	100℃ (212℉), 60mins, 120 bars	
Pre-drying in Tumbler	160℃ (320℉), 30mins	
Tunnel ironing	185℃ (365℉), 30mins	
Sterilization process	134℃ (273.2℉), 20mins, RH 85%	
Water extractor process	60 bar	
Chemical resistance	Endure all chemicals common to the washing endurance.	

APPLICATIONS

Widely used in clothing retail, hotel sheets, medical uniform dry cleaning, industrial laundry, etc. It effectively manages, optimizes inventory and reduces human error during washing and billing processes.


Pool Towel Management


Hotel Laundry Management


Laundry Management


Industrial Textile Management


Apparel Retail Management


Track & Manage Inventory

MATERIAL OPTIONS

Custom RFID laundry tags made of different material, could offer more choice suitable for your project, such as RFID silicone laundry tag, RFID PPS laundry tag & RFID textile laundry tag, etc.


RFID silicone laundry tag


RFID PPS laundry tag


RFID textile laundry tag

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