

# Textile UHF Laundry Tag

HLT serial RAIN RFID laundry tag is a flexible, tenacious, heat resistant design transponder based on textile strip. All textile assets like flat linen, garments and uniforms can be traced and tracked imperceptibly conveyed with unique ID carried, to realize digital transparency and touchless laundry management throughout the soil collection, laundering, distribution processes by RFID facilities work with IT management systems. With a thin, narrow, and soft figure, the HLT laundry tag can be inserted into the tiny flat linen as well as finest textiles with no-wear feeling and unnoticeable look.

## The UHF RFID Laundry Tag Key Features:

- Flexible, thin, smooth and robust
- Long read range and bulk reading performance
- Guaranteed for 200 washing cycles working through sterilization, dewater, heat iron processer under pressure 60 bars, 180°C heating
- Fit for stitching, heat-sealing, pouching or hanging
- On demand service: laser logo with EPC encoding in RFID chip.



## Installation:



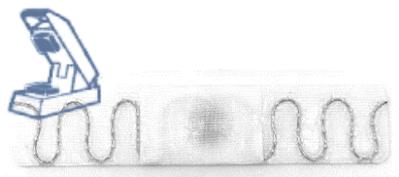
### Stitch Tagging

To be stitched into the hem of a textile.  
Stitch the laundry tag away from the folding lines.



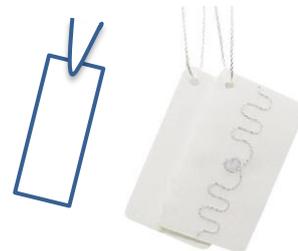
### In Pouch

To be stitched like a standard care label.  
Stitch the laundry tag away from the folding lines.



### Heat Sealing

To be heat-sealed directly on the textile at +195°C (383°F), for 30s.



### Hanging

To be To be hung with the brand label.

## Applications:

Textile Assets E-tracking items: linen, uniforms, workwear, fire retardant, footwear, mask, mats, mops for healthcare, hotel, restaurant, even fashion apparel industries.

**Specification:**

Protocol	ISO 18000-6C / EPC Global Class1 Gen2		
Working Frequency	860 ~ 928MHz		
IC	NXP UCODE 8, UCODE 9		
Memory	UCODE 8: EPC 96/128bits, User 0/32bits, access password 32bits UCODE 9: EPC 96bits, User 0bits, access password 0bit		
Write Endurance	100,000 times		
Data Retention	20 years		
Warranty	200 wash cycles or 2 years from ship date		
Type	HLT-5512 / HLT-5512M	HLT-7010 / HLT-7010M	HLT-7015 / HLT-7015M
Size	55x12x1.6mm/1.1mm	70x10x1.6mm/1.1mm	70x15x1.6mm/1.1mm
Weight (approx.)	0.4g	0.5g	0.6g
Read Range	Up to 5m	Up to 7m	Up to 7m
Material and Components	<ul style="list-style-type: none"> <li>● Substrate fabric: Terylene or 50/50 Terylene cotton</li> <li>● Antenna: Stainless fiber wrapped by TPU,</li> <li>● Chip modules alternative:               <ol style="list-style-type: none"> <li>1, Dia. 5mm PCB board with near field antenna + QFN RFID chip + epoxy protection</li> <li>2, 3.5x3.5x0.8mm mini cube with min antenna and chip sealed inside.</li> </ol> </li> </ul>		
Typical Laundry Processes Cycles' Endurance	Each of the 200 cycles industrial laundry under: <ul style="list-style-type: none"> <li>● Sterilization: +134°C (273°F) / 20 minutes</li> <li>● Washing: +90°C (194°F) / 60 minutes</li> <li>● Water Extractor Press: 60 bars</li> <li>● Drying: +180°C (356°F) / 3 minutes (dehydration press: 35 bar)</li> <li>● Ironer: 195°C (383°F) / 30 seconds &lt; 18 bars</li> </ul>		
Storage Temperature	-40°C ~ +120°C (-40°F to +248°F)		
Chemical Resistance	All chemicals common to the washing process		
Certification	SGS		
Variable Data	On demand variable data operation include visual data printing and chip programming serving based on customer's individual request.		

**Ordering information:**

**HTL 5512 M SE**

- **Dimension:** 5512 - 55x12mm, 7010 - 70x10mm, 7015 - 70x15mm
- **Chip Packaging:** N/A: Default in round module / M- Square cube chip module
- **Means of Installation:** SE - for stitching / PO- in pouch / HS - for heat Sealed / HT- for hang on

Collection of HLT Laundry RFID Tags

