



## NXP® UCODE® 9 UHF RFID Textile Laundry Tag

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| SKU:            | RS-U9-LTWH-7015                                                                             |
| Chip Type:      | NXP® UCODE® 9                                                                               |
| Frequency:      | UHF 860-960 MHz                                                                             |
| EPC Memory:     | 96 bits                                                                                     |
| Protocol:       | ISO/IEC 18000-63,<br>EPCglobal Gen2v2                                                       |
| Read Range:     | Fixed Reader<br>(2W ERP): Over 10 meters<br>Handheld Reader<br>(30dbi power): Over 7 meters |
| Washing Cycles: | 200 washing cycles or 2 years<br>(whichever reaches first)                                  |
| Passed Tests:   | MRI, CT, Needle, GB18401, 100% Radio<br>frequency compliance Testing                        |
| Industry:       | Retail, Apparel and Fashion                                                                 |
| Applications:   | Inventory, Liquids, Laundry,<br>Asset tracking                                              |



The NXP® UCODE® 9 RFID Textile Laundry Tag is built to withstand over 200 industrial wash cycles and has successfully passed MRI testing. It can be securely attached to textiles through sewing or heat pressing, offering excellent versatility for different fabric types and use cases.

Ideal for uniform management, linen leasing, industrial laundry, textile tracking, and access control, this tag delivers durability and consistent performance in demanding environments—ensuring long-term reliability and operational efficiency.

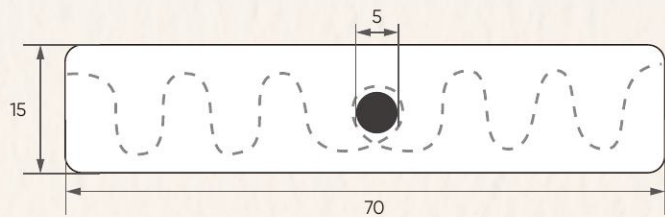
|                      |                       |                                                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Information | Material              | Textile                                                                                                                                                                                                                                                                                                     |
|                      | Size                  | 70×15×1.5 mm                                                                                                                                                                                                                                                                                                |
|                      | Weight                | About 0.62g                                                                                                                                                                                                                                                                                                 |
|                      | Surface Color         | White                                                                                                                                                                                                                                                                                                       |
|                      | Operating Environment | -25°C~+110°C, 5%~95% RH                                                                                                                                                                                                                                                                                     |
|                      | Storage Environment   | +18°C~+28°C, 40%~60% RH                                                                                                                                                                                                                                                                                     |
|                      | Mounting Method       | Method 1: Sewn into the hem, or into the woven label<br>(do not sew onto the metal wire or chip module during sewing)<br>Method 2: Heat transfer at 218°C for 15 seconds with 0.4-0.6 MPa pressure. Optimal results occur at 218°C for 15-20 seconds. Below 210°C or under 0.6 MPa, performance may suffer. |
|                      | Surface               | Fabrics                                                                                                                                                                                                                                                                                                     |
|                      | Application           | Uniforms management, Linen lease, Industrial washing, Textile management, Access-control management, etc                                                                                                                                                                                                    |

|                       |                      |                                                                                     |
|-----------------------|----------------------|-------------------------------------------------------------------------------------|
| Technical Information | Operating Frequency  | 860-960 MHz                                                                         |
|                       | Protocol             | ISO/IEC 18000-63, EPCglobal Gen2v2                                                  |
|                       | Chip Type            | NXP® UCODE® 9                                                                       |
|                       | EPC Memory           | 96 bits                                                                             |
|                       | TID Memory           | 96 bits                                                                             |
|                       | Unique Serial Number | 48 bits                                                                             |
|                       | Security Features    | 32 bits Kill Password and support Memory Safeguard                                  |
|                       | Read Range           | Fixed Reader(2W ERP): Over 10 meters<br>Handheld Reader(30dbi power): Over 7 meters |

|                     |                       |                                                              |
|---------------------|-----------------------|--------------------------------------------------------------|
| Washing Information | Maximum Temperature   | 194°F(90°C)/15 minutes, 200 times                            |
|                     | Pre-Drying in Tumbler | 356°F(180°C)/30 minutes, 200 times                           |
|                     | Ironing               | 356°F(180°C)/10 seconds, 200 times                           |
|                     | Sterilization Process | 275°F(135°C)/20 minutes                                      |
|                     | Water Extractor Press | 60 bars                                                      |
|                     | Chemical Resistance   | All standard chemicals used in industrial washing processes. |
|                     | Washing Cycles        | 200 washing cycles or 2 years(whichever reaches first)       |

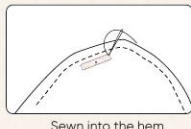
|                       |                  |                                                     |
|-----------------------|------------------|-----------------------------------------------------|
| Packaging Information | Packing Format   | Packed in carton                                    |
|                       | Packing Quantity | 500 pcs/bag, 20 bags/carton<br>G.W.: 5.38 Kg/carton |
|                       | Carton Dimension | 430×210×270 mm                                      |

**Size and Specification Drawing**  
(Unit: mm)

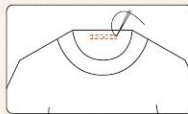


**Mounting Method**

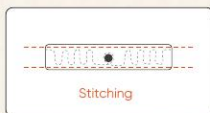
**Method1:**



Sewn into the hem



Sewed onto the woven label



Stitching

Do not sew onto the metal wire or chip module during sewing.

**Method2:**



Heat transfer at 218°C for 15 seconds with 0.4~0.6 MPa pressure.



Optimal results occur at 218°C for 15-20 seconds. Below 210°C or under 0.6 MPa, performance may suffer.