AZ-U9-LTW-7515

NXP UCODE® 9
RFID Textile Laundry Tag

UHF ISO/IEC 18000-6C EPC Global Gen2V2

Key Features

Operating Frequency
UHF 865-868MHz(EU), 902-928MHz(US)

Chip Type
NXP UCODE® 9

International Standard
ISO/IEC 18000-6C, EPC Global Gen2V2

EPC Memory
96-bit

TID Memory
96-bit

Operating Temperature
-25°C to +110°C

Washing Cycles
200 washing cycles or 2 years

1. Product Overview

The NXP UCODE® 9 RFID Textile Laundry Tag is designed to endure and surpass 200 industrial wash cycles, ensuring long-lasting durability. Each tag undergoes 100% memory write testing, providing exceptionally stable performance. Widely used in uniforms management, linen leasing, industrial washing, textile management, and access control management, it offers reliable tracking solutions for various applications.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-U9-LTW-7515
Material	Textile
Dimension	75×15×1.5mm
Weight	About 0.65g
Surface Color	White
Mounting Method	Sewn into the hem, or into the woven label (do not sew onto the metal wire or chip module during sewing)

RFID Tag

2.2 Technical Parameters

Operating Frequency	865-868MHz (EU), 902-928MHz (US)
Communication Protocol	ISO/IEC 18000-6C, EPC Global Gen2V2
Antenna Polarization Mode	Linear Polarization
Reading Distance	Fixed Reader (2W ERP): Over 10 meters Handheld Reader (30dbi power): Over 7 meters

2.3 Washing

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)

2.4 Chip Characteristics

Chip Manufacturer	NXP®
Chip Type	UCODE® 9
TID Memory	96-bit
EPC Memory	96-bit
Unique Serial Number	48-bit
Kill Password	32-bit
Read Sensitivity	-24 dBm
Write Sensitivity	-22 dBm
Encoding Speed	32 bits in 0.96 ms
Self Adjust	Support
Memory Safeguard	Support
Block Write (32-bit)	Yes
Permalock	One-time lock
Write Endurance	100,000 times
Data Retention Time	20 years

2.5 Additional Information

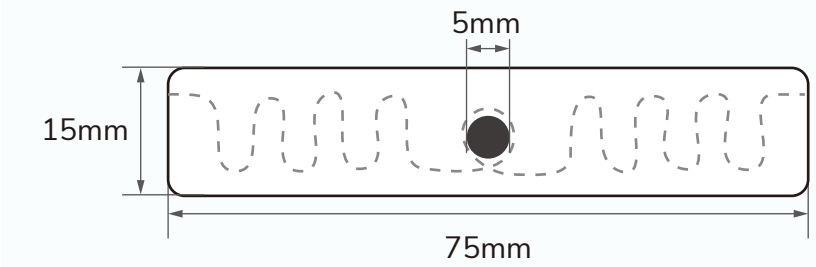
Operating Environment	-25°C to +110°C, 5% to 95%RH
Storage Environment	+18°C to +28°C, 40% to 60%RH (recommended)
Passed Tests	RoHS, MRI, GB18401, 100% Radio frequency compliance Testing
Application	Uniforms management | Linen lease | Industrial washing | Textile management | Access-control management, etc.

RFID Tag

2.6 Packaging

Packing Format	Packed in carton
Packing Quantity	500 pcs/bag, 20 bags/carton G.W.: 6.18 Kg/carton
Carton Dimension	430×210×270mm

3. Size and Specification Drawing



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