

NXP UCODE® 9

RFID Textile Laundry Tag

AZ-U9-LTW-7015



1. Product Overview

With the ability to withstand over 200 wash cycles, the NXP UCODE® 9 RFID Textile laundry tag is ideal for use in industries such as health-care and hospitality where frequent and rigorous washing is necessary. Additionally, with a pressure resistance of up to 60 bars, this tag ensures stable and reliable performance even in the most demanding conditions.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-U9-LTW-7015
Material	Textile
Dimension	70×15×1.5mm
Weight	About 0.62g
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)

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



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

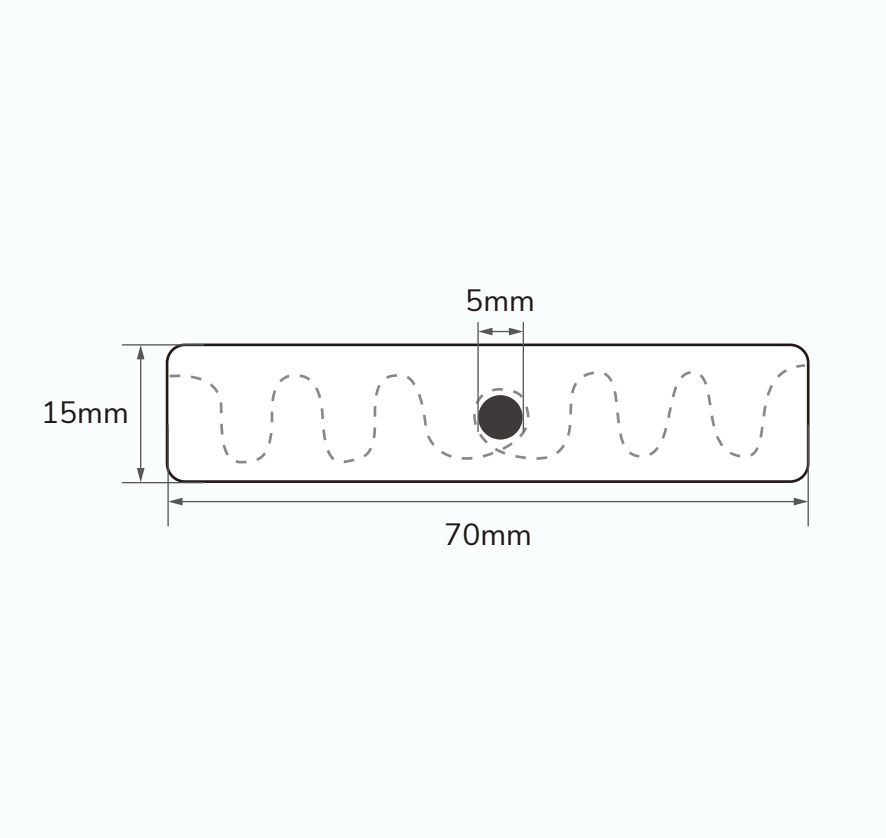
Operating Environment	-25°C to +110°C, 5% to 95%RH
Storage Environment	+18°C to +28°C, 40% to 60%RH (recommended)
Passed Tests	RoHS, MRI, GB18401, 100% Radio frequency compliance Testing
Application	Uniforms management Linen lease Industrial washing Textile management Access-control management, etc.



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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