



ECO UHF FSC PAPER-BASED SUSTAINABLE UHF RFID TAG

54 × 34 mm

High-performance FSC-certified paper-based UHF RFID tag designed for retail and apparel applications. The ECO Hanger X is compatible with apparel hangtags and stickers. Made from sustainable fiber-based substrate, it is fully recyclable and supports a flexible, thin and resistant tag structure that also allows high-quality printing. By choosing ECO Hanger X, companies can reduce their carbon footprint per unit compared to PET/Alu tags, enabling a more sustainable choice and supporting a circular economy.



SUSTAINABLE
DESIGN

FSC-certified paper for a greener future



LONG RANGE
READING

Up to 16–18 meters read range



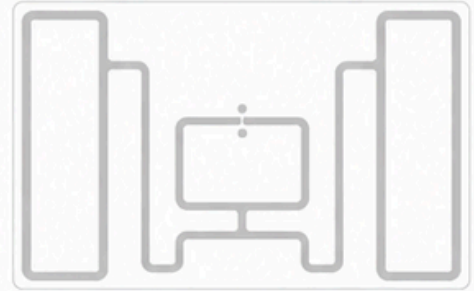
PLASTIC-FREE
CONSTRUCTION

No PET, fully paper-based inlay



GLOBAL RFID
COMPLIANCE

Works across global UHF frequencies



KEY FEATURES

- ✓ FSC-certified paper-based construction
- ✓ Plastic-free RFID tag design
- ✓ Fully recyclable tag structure
- ✓ Optimized for apparel hangtags and retail labels
- ✓ Long-range reading performance up to 16–18 meters
- ✓ High read reliability in retail environments
- ✓ Excellent stacked-item performance
- ✓ Suitable for high-volume automated identification systems
- ✓ Flexible structure for converting and label applications
- ✓ Global frequency compliance
- ✓ Environmentally responsible RFID solution

PRODUCT SPECIFICATIONS

Product Type	FSC Paper-Based UHF RFID Tag
Model	ECO UHF FSC Paper-Based
Dimensions	54 × 34 mm
Antenna Dimensions	52 × 32 mm
Face Material	FSC Paper
Inlay Type	Paper-Based RFID Tag
RFID Frequency	UHF 860 – 960 MHz
RFID Standard	EPC Gen2v2.1 / ISO 18000-63
Chip Type	NXP UCODE 9
EPC Memory	96 Bit EPC
Read Range	Up to 16–18 meters
Print Compatibility	Thermal Transfer Printable
Surface Compatibility	Cardboard, Packaging, Paper Products
Operating Environment	Retail & Logistics
Delivery Format	3500 pcs / reel
Core Size	76 mm
Shelf Life	1 Year (+20°C, 50% RH)
Colour	White
Construction	FSC Paper Substrate + RFID Chip + Antenna

TYPICAL APPLICATIONS

 APPAREL • Garment identification • Retail inventory control • Item-level tracking • Smart fitting room applications	 FOOD RETAIL • Product identification • Inventory visibility • Supply chain traceability
 RETAIL • Inventory visibility • Smart shelving • Loss prevention	 LOGISTICS & WAREHOUSING • Shipment verification • Distribution management • Carton identification
 SUPPLY CHAIN • End-to-end visibility • Product traceability • Automated identification	 PACKAGING • Sustainable smart packaging • Product authentication • Logistics labeling

ENVIRONMENTAL & PERFORMANCE

	Moisture Resistance	Moderate
	Flexibility	High
	Chemical Resistance	Limited
	Indoor Use	Recommended
	Outdoor Use	Not Recommended
	Sustainability	FSC Paper-Based
	Plastic Content	Plastic-Free
	Packaging Compatibility	Excellent

COMPLIANCE

- ✓ EPC Gen2v2.1 Compliant
- ✓ ISO 18000-63 Compliant
- ✓ FSC Paper-Based Material
- ✓ Global Frequency Compliant

RECOMMENDED STORAGE

- ⚠ Store in cool, dry conditions
- ⚠ Avoid excessive humidity exposure
- ⚠ Recommended humidity: 40%–60% RH
- ⚠ Keep sealed in original packaging until use
- ⚠ Avoid heavy wrinkling or mechanical stress

RECOMMENDED READER



CHAINWAY C72 5.2" UHF Android Mobile Scanner

- High-performance UHF RFID mobile computer with Android, powerful octa-core processor and long-range reading capability.
- ✓ Android Operating System
 - ✓ UHF Long Range Reading
 - ✓ Rugged & Reliable Design
 - ✓ Ideal for Inventory Management, Logistics & Supply Chain Visibility



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