



EM Microelectronic® EM4423 UHF RFID+NFC Dual Frequency Label



SKU:	RS-4423-PET3M-5333
Chip Type:	EM Microelectronic® EM4423
Frequency:	HF 13.56 MHz + UHF 860-960 MHz
Protocol:	ISO/IEC 14443-A, NFC Forum Type 2 ISO/IEC 18000-63, EPCglobal Gen2v2
EPC Memory:	16 bytes/28 bytes (EPC interface)
User Memory:	20 bytes/8 bytes (EPC interface) 240 bytes (NFC interface)
UID Memory:	7 bytes
TID Memory:	12 bytes
Industry:	Retail, Logistics, Healthcare, Events, Catering, Jewelry, Apparel and Fashion
Applications:	Asset Tracking, Inventory, Document Management, Jewelries & Sunglasses, Library, Warehouse, NFC, Product Authentication, Brand Protection



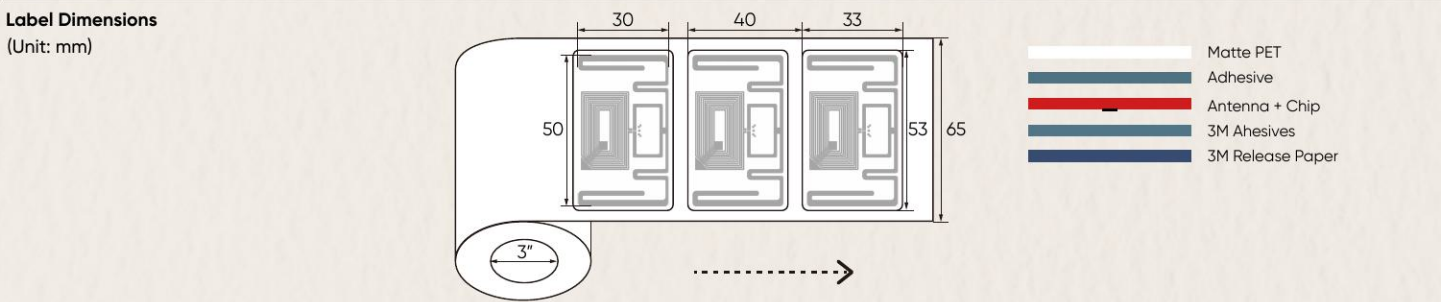
The UHF RFID + NFC Dual Frequency Label EM4423 (53×33mm) combines long-range UHF capabilities with convenient NFC functionality, providing a powerful and versatile identification solution. With UHF ISO/IEC 18000-63 compliance, it enables fast, long-distance bulk reading, making it ideal for logistics, supply chain, and inventory management. At the same time, the integrated NFC interface (ISO/IEC 14443-A) allows direct smartphone interaction, creating opportunities for customer engagement, product authentication, and after-sales services.

Designed in a compact 53×33mm format, this dual-frequency label ensures reliable performance across various surfaces, while the EM4423 chip guarantees secure data storage and flexible memory management. Whether used for retail brand protection, smart packaging, or asset tracking, it bridges enterprise-level operations with consumer-facing applications, offering a seamless way to enhance efficiency, transparency, and customer trust.

Physical Information	Material	PET+3M Adhesives
	Label Size	53×33 mm
	Antenna Size	50×30 mm
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Mounting Method	Stick
	Surface	Paper Carton, Plastic, Wood
	Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Labels with black-dot marks are bad ones, do not use.

Technical Information	Operating Frequency	HF 13.56 MHz + UHF 860-960 MHz
	Communication Protocol	ISO/IEC 14443-A, NFC Forum Type 2 ISO/IEC 18000-63, EPCglobal Gen2v2
	Chip Type	EM Microelectronic® EM4423
	Communication Baud Rates	106 kbits/s (NFC interface)
	EPC Memory	16 bytes/28 bytes (EPC interface)
	User Memory	20 bytes/8 bytes (EPC interface) 240 bytes (NFC interface)
	UID Memory	7 bytes
	TID Memory	12 bytes
	Optional Security Timeout For Funsuccessful LOGINs	Support (NFC interface)
	Optional Control Of EPC Privacy Features	Support (NFC interface)
	Optional Limit Of Unsuccessful LOGINs	Support (NFC interface)
	Optional Read-Only Locking Function	Support (NFC interface)
	Security Features	32 bits Access and Kill Passwords (EPC interface)

Packing Information	Packing Format	Packed in roll, vacuumed packing in ESD bag
	Roll OD	Max. 210 mm
	Core ID	3 inch/76.2 ± 0.50 mm
	Packing Quantity	1000pcs/roll, weight per roll 1 kg



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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