



EM Microelectronic® EM4425 (EM® echo-V) UHF RFID+NFC Dual Frequency Label



SKU:	RS-4425-PET3M-6333
Chip Type:	EM Microelectronic®
Frequency:	HF 13.56 MHz + UHF 860-960 MHz
Protocol:	ISO/IEC 15693, NFC Forum Type 5 ISO/IEC 18000-63, EPCglobal Gen2v2 ISO/IEC 29167-10
EPC Memory:	60 bytes
User Memory:	256 bytes
UID Memory:	8 bytes (HF)
TID Memory:	12 bytes (UHF)
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



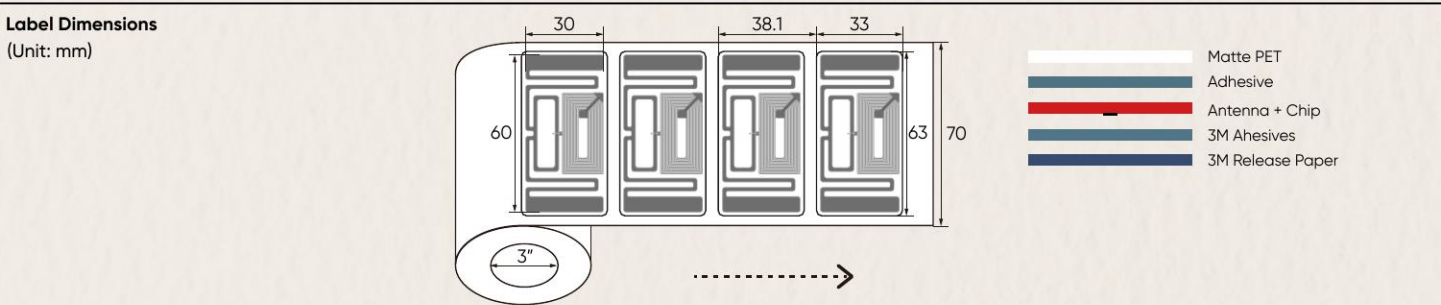
The UHF RFID + NFC Dual Frequency Label EM4425 (EM® echo-V) 63×33mm is designed to seamlessly connect enterprise-level logistics with consumer engagement. Powered by the advanced EM4425 chip, this dual-interface label supports UHF (ISO/IEC 18000-63) for long-range, high-speed tracking and NFC (ISO/IEC 15693) for direct smartphone interaction. This enables businesses to streamline inventory and supply chain operations while also offering customers instant access to product details, authenticity verification, or digital content with a simple tap.

Featuring a 63×33mm form factor, the label offers reliable readability, ample surface area for branding, and secure memory architecture. Its versatility makes it ideal for industries such as retail, supply chain, brand protection, pharmaceuticals, and smart packaging. By bridging operational efficiency with consumer interaction, the EM4425 dual frequency RFID label empowers companies to unlock new levels of transparency, trust, and customer engagement in one powerful solution.

Physical Information	Material	PET+3M Adhesives
	Label Size	63×33 mm
	Antenna Size	60×30 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 15693, NFC Forum Type 5 ISO/IEC 18000-63, EPCglobal Gen2v2 ISO/IEC 29167-10
	Chip Type	EM Microelectronic® EM4425 (EM® echo-V)
	EPC Memory	60 bytes
	User Memory	256 bytes
	UID Memory	8 bytes (HF)
	TID Memory	12 bytes (UHF)
	Optional Random ID And Secure Customer Privacy	Support (HF interface)
	Protect Memory And Privacy Using Password	Support
	Tamper Alarm	Support
	Optional App-Free Tamper Detection	Support (NFC interface)
	Optional App-Free Web Based Crypto Authentication	Support (NFC interface)
	Security Features	AES-128 crypto for NFC web based authentication

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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