



Dual-Frequency RFID Temperature Monitoring & Logging Label

SKU:	RS-NUHTM-PP-12590
Frequency:	HF 13.56 MHz UHF 860-960 MHz
Protocol:	HF: ISO/IEC 14443-A, NFC Forum Type 2, UHF: ISO/IEC 18000-6C, EPC Class 1 Gen 2
User Memory:	0~8k bits(Configurable area size)
EPC Memory:	160k bits
UID Memory:	7 bytes(HF)
TID Memory:	96 bits(UHF)
Temperature Measurement Distance:	5 cm(NFC)
Industry:	Catering, Healthcare, Pharmaceuticals, Cold Chain Shipment, Logistics, Retail
Applications:	Fresh Food, Frozen Food, Cold Chain, Vaccine, Inventory, Warehouse, Smart packaging

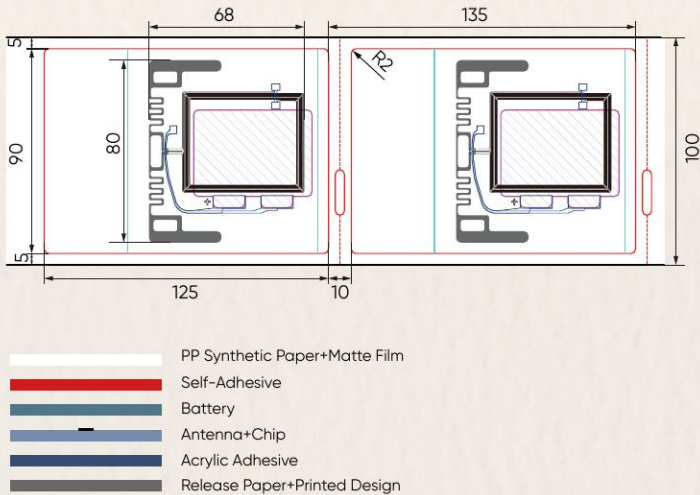
The RFID temperature monitoring and logging label is specifically designed for effective cold chain management, making it perfect for applications like vaccines, pharmaceuticals, fresh produce, and smart parcel tracking. With both NFC and UHF capabilities, this label provides accurate temperature monitoring, smooth inventory tracking, and improved product safety throughout the entire cold chain.

This label includes an integrated battery that allows for offline operation, continuous temperature readings, and automatic generation of statistical reports. It features a sensor IC with three interfaces: a contact-based I2C interface, an HF NFC port, and a UHF port. Operating in both semi-active mode (battery-powered) and passive mode (powered by the reader's RF field), the label provides temperature measurements in both modes and across both NFC and UHF frequencies. Additionally, it fully complies with ISO/IEC 14443-A, EPC Class 1 Gen 2, and ISO/IEC 18000-63 standards, ensuring reliability and compatibility in various environments.

Physical Information	Material	Matte laminated PP synthetic paper
	Label Size	90×125 mm
	Antenna Size	68×80 mm
	Mounting Method	Stick
	Surface	The surface of the item that needs temperature monitoring
	Operating Environment	-35°C~+50°C
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Handling Precautions	1. Do not bend. 2. Keep away from collision. 3. Labels with black-dot marks are bad ones, do not use.

Technical Information	Operating Frequency	HF 13.56MHz, UHF 860-960 MHz
	Protocol	HF: ISO/IEC 14443-A, NFC Forum Type 2, UHF: ISO/IEC 18000-6C, EPC Class 1 Gen 2
	Temperature Measurement Distance	5 cm(NFC)
	User Memory	0~8k bits(Configurable area size)
	EPC Memory	160k bits
	UID Memory(Unchangeable)	7 bytes(HF)
	TID Memory(Unchangeable)	96 bits(UHF)
	Security Features	32-bit kill & access password

Label Dimensions
(Unit: mm)



● **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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