



BELT DF

The Dual-Frequency Advantage in Item-Level Tagging

Smartrac's Belt DF inlays and tags are designed for item-level tagging, brand protection, supply chain management, and logistics applications. Based on Smartrac's successful BELT RAIN RFID product line, they combine excellent performance with a unique dual-frequency capability, operating in both NFC (HF) and RAIN RFID (UHF) frequency ranges.

BELT DF's dual-frequency capability provides powerful all-in-one solutions for, inter alia, consumer engagement, and product authentication, offering the possibility to manage the distribution channels and fight the black and grey market. The consumer can verify the authenticity of the purchased product, while the retailer can verify the authenticity of the returned product. Moreover, the interaction with the product before, during or after purchase, in-store or at home, offers a consistent consumer experience, regardless of the sales channel.

BELT DF inlays and tags have a compact 76mm / 3 inch form factor, which can be easily converted into end-application usage, and are available in paper tag delivery format. BELT DF comes with EM Microelectronic's EM4425 echo-V IC that equipped with 2048-bits shared user memory. It is accessible via RAIN RFID (UHF) and NFC (HF) frequencies, enabling the use of inexpensive, generally available readers (NFC-enabled smartphones) as supplements to dedicated UHF or HF reader infrastructures.

BELT DF supports "One-Time-Password" web authentication and is available with different AES-128 encryption levels for maximum security upon request.

Overview

Operating Frequency
860 - 960 MHz

Integrated Circuit (IC)
EM4425

Antenna Size
70 × 20 mm (2.7 × 0.7 in)

Die-cut Size
73 × 23 mm (2.9 × 0.9 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ▶ ISO 15693
- ISO/IEC 18000-63

Application Areas

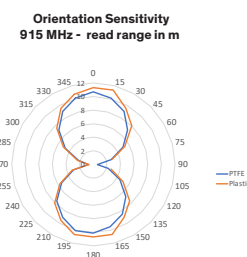
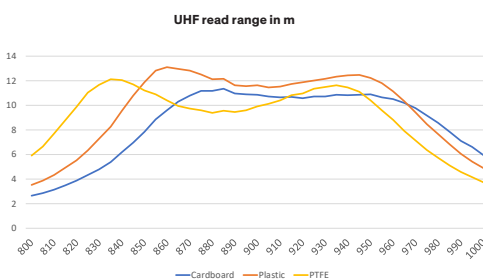
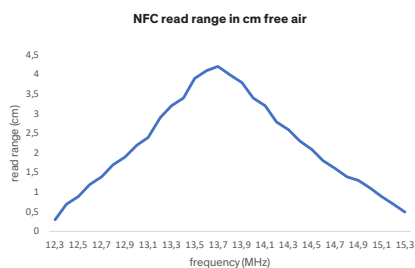
- ▶ Brand Protection
- ▶ Logistics Applications
- ▶ Supply Chain Management

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Technical Features			
IC + Memory EM4425 2048 bits user memory	Size 73 × 23 mm / 2.9 × 0.5 in	Format* Paper Tag	Sales Code 3007478
Web Width	76 mm / 2.99 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	RA-5		
Qty/Reel	10,000 pcs/roll. Single roll in box		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

*Additional product configurations are available upon request.



All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

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