



BELT

Compact Size & High Performance in Item-level Tagging

SMARTRAC BELT inlays and tags are designed for global retail, industry and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

BELT inlays and tags have a compact 73mm / 2.8 inch form factor, which can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats. BELT equipped with NXP UCODE 8 offers same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers a Self Adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. Furthermore, the chip has an integrated Brand Identifier function to prove product authenticity and a memory safeguard system to protect business data.

BELT benefits from the capabilities of Smart Cosmos: SMARTRAC's IoT platform can record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of SMARTRAC's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

BELT with the NXP UCODE 8 IC, used in retail applications, is included on the approved inlay list by the RFID Research Center of the University of Auburn, and complies with categories A, B, C, D, F, G, I, K, M, N and Q. Furthermore, it meets GS1 Tagged-Item Performance Protocol (TIPP) Tagged-Item Gradings M10B S15B, M15B S15B and M20D S15D for the retail supply chain, retailers and suppliers.

Overview

Operating Frequency
860 - 960 MHz

Integrated Circuit (IC)
NXP UCODE 8

Antenna Size
70 × 14 mm (2.8 × 0.6 in)

Die-cut Size
73 × 17 mm (2.9 × 0.7 in)

International Standards

▶ EPC Class 1 Gen 2
ISO 18000-6C

Application Areas

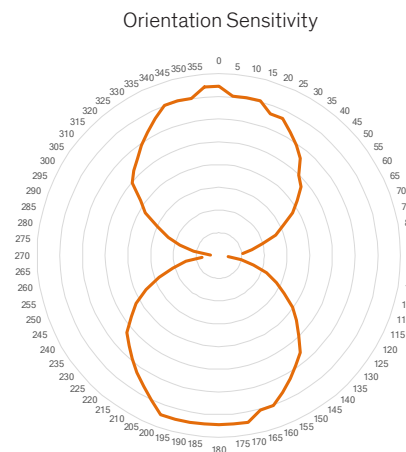
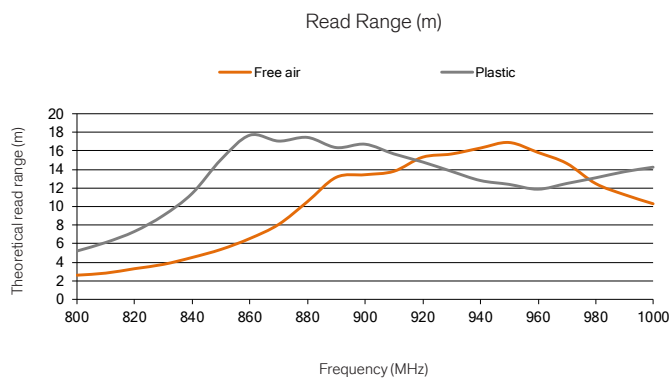
- ▶ Automotive
- ▶ Brand Protection
- ▶ Industry
- ▶ Product Authentication
- ▶ Retail
- ▶ Supply Chain Management

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Technical Features				
IC + Memory NXP UCODE 8 128 bit EPC	Size	Format*	Sales Code	Reel Size
	70 × 14 mm / 2.8 × 0.6 in	Inlay	3006809	20,000
	73 × 17 mm / 2.9 × 0.7 in	Wet	3006818	20,000
	73 × 17 mm / 2.9 × 0.7 in	Paper Tag	3006806	5,000
Web Width	80 mm / 3.15 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	Acrylic, water borne adhesive			
Core Size	76 mm / 3 in			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			

*Note: Other formats 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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