



BELT

Excellent Global Performance with Extended Memory

SMARTRAC BELT inlays and tags with the new high memory ICs from NXP UCODE family are designed for global supply chain, industrial, RTI and applications, and offer excellent performance in demanding environments and on different materials.

BELT inlays and tags have good tolerance and performance on difficult-to-tag or low-detuning materials such as cardboard and plastics, and in other demanding environments. They are available with the latest NXP UCODE products, like UCODE 7xm and 7xm+ with extended memory, supporting 1kbit / 2 kbit of user memory and 448 bit EPC memory. In addition, UCODE DNA is the world's first UHF IC to combine long-range read performance with cryptographic authentication and offers 3 kbit of user memory and 224 bit EPC memory. All chips offer unique TID and enable pre-serialized EPC, parallel encoding and provides a product status flag.

The inlay is size-optimized for 100 mm / 4 inch wide converted labels, and is available in dry, wet and paper tag delivery formats.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application with extended user memory needs.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

NXP UCODE 7XM, 7XM+ and UCODE DNA

Antenna Size

70 x 10 mm (2.8 x 0.4 in)

Die-cut Size

73 x 13 mm (2.9 x 0.5 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

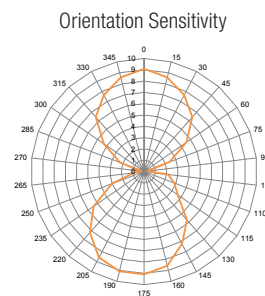
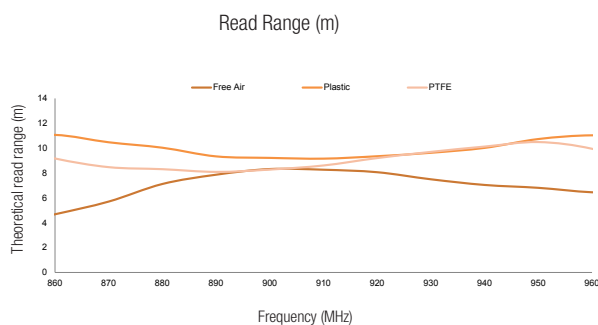
- ▶ Automotive
- ▶ Industry
- ▶ Supply Chain Management

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Technical Features			
IC + Memory*	Size	Format	Sales Code
NXP UCODE 7XM	70 x 10 mm / 2.8 x 0.4 in	Dry	3005418
448bit EPC	73 x 13 mm / 2.9 x 0.5 in	Wet	3005419
	73 x 13 mm / 2.9 x 0.5 in	Paper tag	3005420
Web Width	80 mm / 3.2 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	10,000 pcs.		
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 IC memories 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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