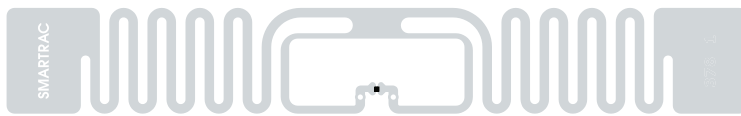


## BELT

Compact size and high performance in item level retail and supply chain applications.



Belt tags and inlays are designed for item level, logistics and retail applications offering high performance in apparel and brand protection, industrial and supply chain management solutions. The special design takes into account RF requirements for close coupling.

Belt tags and inlays with the NXP UCODE 7 IC, used in retail applications, have passed the Arkansas Radio Compliance (ARC) tests defined by the RFID Research Center at the University of Arkansas. Retailers and brand owners can deploy SMARTRAC's Belt tags for apparel globally, as they comply with frequency regulations set up in US (FCC), EU (ETSI) and Asia.

### Benefits:

- ▶ High performance for a wide range of apparel and supply chain management applications.
- ▶ Compact 3 inch form factor.
- ▶ University of Arkansas approved, ARC categories A, B, C, D, I, and K.
- ▶ Unique TID and pre-serialized EPC number.
- ▶ Paraller encoding i.e. multiple tags can be encoded at the same time.
- ▶ Product status flag i.e. the tag can be used as EAS (Electronic Article Surveillance) tag without the need for a back-end data base.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.

### Overview

#### Operating Frequency

860 - 960 MHz

#### Integrated Circuit (IC)

NXP UCODE 7

#### Antenna Size

70 x 10 mm (2.76 x 0.39 in)

#### Die-cut Size

73 x 13 mm (2.87 x 0.51 in)

#### International Standards

EPC Class 1 Gen 2

ISO 18000-6C

#### Quality Assurance

100% performance tested

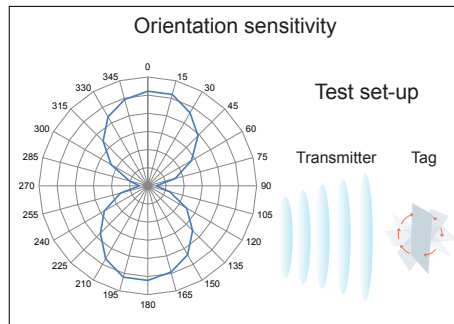
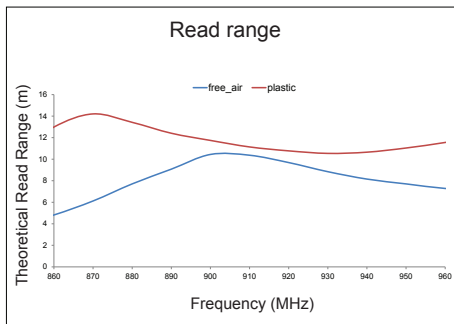
### Application Areas

- ▶ Apparel
- ▶ Brand Protection
- ▶ Industrial Automation
- ▶ Supply Chain Management

## BELT

Technical Features	
IC	NXP UCODE 7
Memory	EPC memory 128 bit
Frequency	860-960 MHz
Antenna Size	70 x 10 mm / 2.76 x 0.39"
Die-cut Size	73 x 13 mm / 2.87 x 0.51"
Web Width	80 mm / 3.15"
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Bending Diameter (D)	> 50 mm, tension max. 10 N
Delivery Formats	Dry inlay, wet inlay, tag
Adhesive	Acrylic, water borne adhesive
Adhesive Usage Temperature	min. -20°C to 80°C / min. -4°F to 176°F
Qty/Reel	20,000 per reel
Core Size	76 mm / 3"
Shelf Life: minimum of 2 years from the date of manufacture in	20°C / 68°F, 50% RH

SMARTRAC TECHNOLOGY GROUP uses three different qualification methods to evaluate the quality and reliability of RFID inlay and tag products. Products are tested according to IEC 60068-2-67 (temperature and humidity), JEDEC22-A104-B (temperature cycling) and an in-house developed bending test.



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.



RoHS CE

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