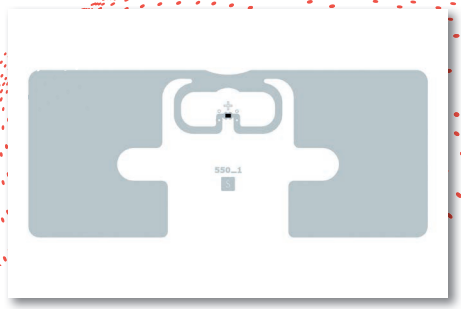
smartrac
connect things



WINGS

Designed for Luggage Tagging and Supply Chain Applications

Designed for baggage tagging in aviation and global supply chain applications, Smartrac WINGS inlays and tags provide an outstanding read range performance at a compact size.

WINGS has a footprint of 30 × 72 mm and is available in dry-naked delivery format which can be easily converted. WINGS is equipped with NXP's UCODE® 8 IC that comes with 128-bit EPC memory, features a unique 96-bit tag identifier (TID), a pre-serialized EPC and an auto adjust function for automated tag performance optimization.
With its leading-edge RF performance for any given form factor, UCODE 8 enables long read distance and fast inventory of dense RFID tag population.

WINGS 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.

WINGS with the NXP UCODE 8 IC, used in luggage tagging applications, is included on the approved inlay list by the RFID Research Center of the University of Auburn, and complies with category U.

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 needs, especially in the retail environment.

Overview

Operating Frequency
860 - 960 MHz

Integrated Circuit (IC)
NXP UCODE 8

Antenna Size
30 × 72 mm (1.18 × 2.84 in)

International Standards

- EPC Class 1 Gen 2
  ISO 18000-63

Application Areas

- Luggage Tagging
- Apparel Tagging
- Supply Chain Management

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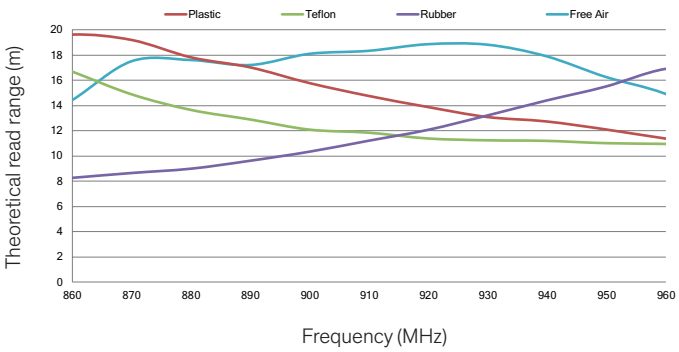
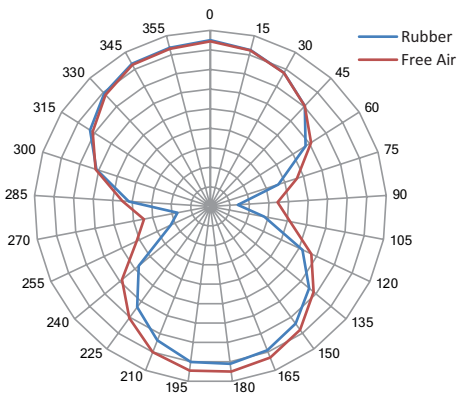
Technical Features				
IC + Memory NXP UCODE 8 128 bit EPC	**Size** 30 × 72 mm / 1.18 × 2.84 in	**Format** Dry-naked	**Sales Code** 3007057	**Reel Size** 5,000
Web Width	40 mm / 1.58 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Core Size	76 mm / 3 in			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			

Read Range (m)



Orientational Sensitivity



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.

Smartrac N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands
Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155

Contact: Sales & Customer Service
smartrac-group.com/contact

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