



## EAGLE

### Top Read Range for Retail Applications

Smartrac's EAGLE is one of the smallest global RAIN RFID inlays for retail applications, having a compact size  $44 \times 28$  mm which can be easily converted into end-application usage, available in dry and paper-tag delivery formats. EAGLE 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.

EAGLE 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.

EAGLE with the NXP UCODE 8 IC, used in retail applications, is the smallest inlay with global performance currently available on the market that has passed ARC categories A, B, C, D, F, G, I, K, M and Q.

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

$44 \times 28$  mm (1.7  $\times$  1.1 in)

##### Die-cut Size

$47 \times 31$  mm (1.9  $\times$  1.2 in)

#### International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-63

#### Application Areas

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

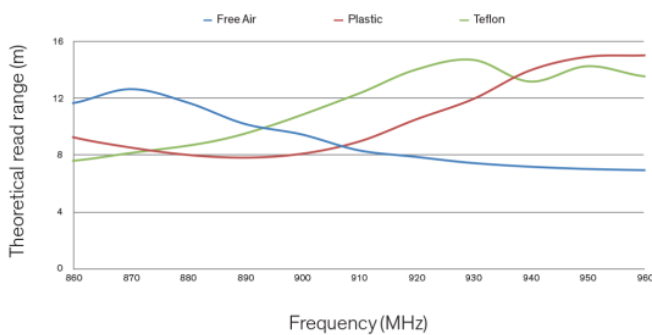
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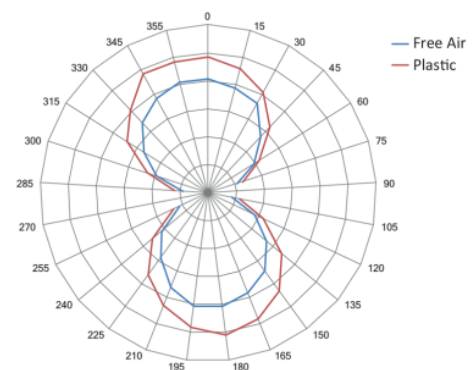
Technical Features				
<b>IC + Memory</b> NXP UCODE 8 128 bit EPC	<b>Size</b> 44 × 28 mm / 1.7 × 1.1 in 47 × 31 mm / 1.9 × 1.2 in	<b>Format*</b> Inlay Paper Tag	<b>Sales Code</b> 3007014 3007016	<b>Reel Size</b> 18,000 4,000
Web Width	50 mm / 1.96 in			
Operating Temperature	-40 °C to +85 °C / -40 °F 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.

Read Range (m)



Orientalional 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.

