



## FLY

### Smallest Tag with Largest Memory

SMARTRAC FLY inlays and tags with UCODE 7×m high-memory ICs from NXP are designed for industrial applications in the automotive, aerospace and pharmaceutical sectors, among others.

FLY inlays and tags offer excellent performance on light and medium loads, and feature the tiniest optimized form factor for tagging small items in industrial environments with superior orientation sensitivity. They are available with the latest NXP UCODE 7×m ICs with extended memory, supporting 2kbit of user memory and 448-bit EPC memory. FLY offers unique TID and enables pre-serialized EPC plus parallel encoding, and provides a product status flag. Additionally, SMARTRAC's FLY inlays and tags can be equipped with NXP UCODE 7×m+ and NXP UCODE DNA to enable parts authentication and brand protection with higher memory capabilities.

The inlays are available in dry, wet and paper tag delivery formats.

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

#### Overview

**Operating Frequency**  
860 - 960 MHz

**Integrated Circuit (IC)**  
NXP UCODE 7×m

**Antenna Size**  
12 × 12 mm (0.5 × 0.5 in)

**Die-cut Size**  
15 × 15 mm (0.6 × 0.6 in)

#### International Standards

▶ EPC Class 1 Gen 2  
ISO 18000-6C

#### Application Areas

- ▶ Automotive
- ▶ Aerospace
- ▶ Pharma & Healthcare

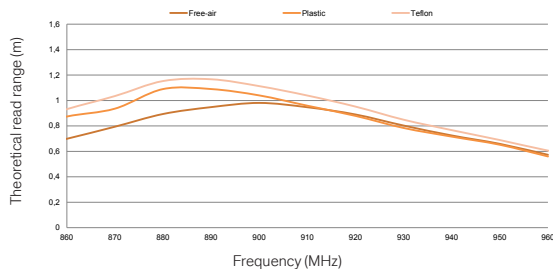
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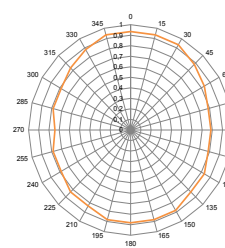
Technical Features			
<b>IC + Memory*</b> NXP UCODE 7XM 448bit EPC	<b>Size</b>	<b>Format</b>	<b>Sales Code</b>
	12 × 12 mm / 0.5 × 0.5 in	Dry	3005980
	15 × 15 mm / 0.6 × 0.6 in	Wet	3005981
	15 × 15 mm / 0.6 × 0.6 in	Paper tag	3005982
Web Width	24 mm / 0.9 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive	& solvent-free permanent adhesive	
Qty/Reel	5,000 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.

Read Range (m)



Orientation 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.

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