



SKYLINE

Combining Long Read Range with Small Size on Metal

SKYLINE RAIN RFID (UHF) inlays are designed for industrial on-metal labels, combining superior read range, small footprint and thin spacer layer. The innovative antenna layout allows a very compact label size of $54 \times 25 \times 1,8$ mm while providing a read range of up to 6 meters for a broad variety of applications such as tracking of metallic parts, components and containers in automotive, mechanical engineering, aviation and other industrial markets.

The SKYLINE inlays utilize NXP's UCODE 7xm IC with 448-bit EPC memory and extended user memory of 2 Kbits. The IC supports long read ranges and reliable operation in dense reader and noisy environments due to its high radio sensitivity and interference rejection features.

SKYLINE is designed to be converted into a finished label by uniquely folding it around thin synthetic foam spacer material and adding a layer of strong and resilient adhesive, providing excellent adhesion to a wide array of surfaces. The finished label surface is printable with TTR printers.

The converted SKYLINE inlays have been tested for compliance with VDA recommendations for the automotive industry and supported by the leading manufacturing automation companies globally.

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 and industrial environment.

Overview

Operating Frequency
860 - 960 MHz (ETSI)

Integrated Circuit (IC)
NXP UCODE 7XM

Folded Size
 $54 \times 25 \times 1,8$ mm

Antenna Size
 $112 \text{ mm} \times 23 \text{ mm}$

Web Width
 $120 \text{ mm} / 4.724 \text{ in}$

International Standards

▶ EPC Class 1 Gen 2
ISO 18000-6C

Application Areas

- ▶ Asset Tracking
- ▶ Brand Protection
- ▶ Warehouse Management
- ▶ Automotive
- ▶ Construction
- ▶ ... and many more

SKYLINE

Combining Long Read Range with Small Size on Metal

Technical Features				
IC + Memory NXP UCODE 7XM 448 bit EPC + 2048 bit	Size 112 × 23 mm	Format* Dry	Sales Code 3006874	Package size 10k pcs/reel
Web Width	120 mm / 4.724 in			
Operating Temperature	-20 °C to +85 °C / -4 °F to +185 °F			
Adhesive	None			
Core Size	76,2 mm / 3 in			
Shelf Life	Minimum 1 year from the date of manufacturing			
Read range	Up to 6 m			
Substrate	White PET			
Reel outer diameter	Max 400 mm			

* Specs for folding and foam are available from Smartrac upon request.

Smartrac N.V. · Strawinskyiaan 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



© 2019 Smartrac N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

