



## STINGRAY

### Best Performance for Library and Rental Applications

SMARTRAC STINGRAY inlays and tags featuring NXP ICODE SLIX and SLIX2 ICs are designed for all disc types: CD, DVD and Blu-ray. They provide best-in-class performance and robust readability for library and rental applications.

STINGRAY products, delivered in wet format, have strong adhesive properties, are reliable and have long lifetime in library and rental performance.

STINGRAY with NXP ICODE SLIX provides 896 bits of user memory, while NXP ICODE SLIX2 boasts an extended user memory of 2,528 bits. The tag provides excellent and cost effective security performance products for disc media, including self-check multi-read and improved gate EAS.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs, where high performance is a critical parameter.

#### Overview

**Operating Frequency**  
13.56 MHz

**Integrated Circuit (IC)**  
NXP ICODE SLIX & SLIX2

**Antenna & Die-cut Size**  
Ø 105 mm / 4.13"  
Ø 108 mm / 4.25"

#### International Standards

- ▶ ISO 15693
- ▶ ISO 18000-3 Mode 1
- ▶ NFC Forum Type 5

#### Application Areas

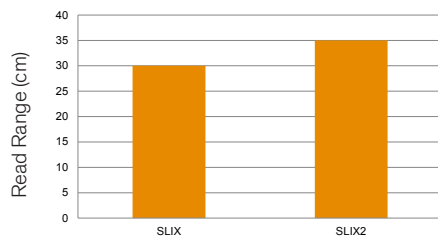
- ▶ Media & Document Management

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| Technical Features                              |   |                      |                              |
|---|---|----------------------|------------------------------|
| <b>IC + Memory</b><br>NXP ICODE SLIX<br>896 bit | <b>Size</b><br>Ø 108 mm / 4.25 in   | <b>Format</b><br>wet | <b>Sales Code</b><br>3002067 |
| NXP ICODE SLIX2<br>2,528 bit                    | Ø 108 mm / 4.25 in  | wet                  | 3006211                      |
| Operating Temperature                           | -40°C to 85°C / -40°F to 185°F  |                      |                              |
| Bending Diameter (D)                            | > 50 mm, tension max. 10 N  |                      |                              |
| Adhesive  | Permanent pressure sensitive adhesive; usage temperature: min. -10°C to 90°C / min. 14°F to 194°F |                      |                              |
| Shelf Life                                      | +20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing                 |                      |                              |

Read range in CD/ DVD



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.

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