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NFC Inlays & Tags

Product Range

With a wide selection of antenna choices and protocols, Smartrac's NFC inlays and tags offer great application flexibility and fit-for-function design in the most demanding applications.

NFC 13.56 MHz ISO and NFC Forum-compliant RFID technology is a proven, globally accepted solution for a vast array of markets. The technology is a perfect fit for various NFC applications, such as embedded NFC tags in posters, signs, menus, labels and business cards, which immediately launch mobile phone applications or connect the user to social media websites. Unlike bar codes or QR codes, NFC tags can carry significantly more data, are more secure and can be password protected. Embedded NFC tags can provide detailed and dedicated information about products, brands, consumer endorsements, user manuals, sustainability, recycling, and much more.

Smartrac NFC product portfolio features state-of-the-art product modification to meet different end-application needs. CIRCUS DURA and FLEX are using a special reinforced structure compared to standard inlays it can withstand higher environmental stresses. Whereas CIRCUS TAMPER LOOP comes with a tamper loop design for tamper detection and authentication for smart packaging.

In conjunction with Experiences, a solution based on Smartrac's enablement platform Smart Cosmos, NFC inlays and tags enable brands to turn physical products into digital connections, revolutionizing consumer journeys and product lifecycles.

Smartrac's operations are certified to ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System standards.

Overview

Operating Frequency
13.56 MHz

International Standards
- ISO 14443 A, NFC Forum

Typical End-user Areas
- Electronics & Gaming
- Media & Document Management
- Product Authentication
- Packaging
- Retail
- … and many more

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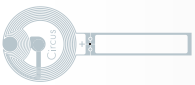
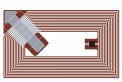
NFC Inlays & Tags

Product Range (selection)

Product	Product Name	IC	Memory	Antenna & Die-cut Size
	CIRCUS™	NXP NTAG210 Micro NXP NTAG213	384 bit / 48 byte 1152 bit / 144 byte	Ø 22 mm / 0.87” Ø 20 mm / 0.79”
	CIRCUS™ DURA / FLEX	NXP NTAG213	1152 bit / 144 byte	Ø 20 mm / 0.79” Ø 22 mm / 0.87”
	CIRCUS™ ON-METAL	NXP NTAG213	1152 bit / 144 byte	Ø 20 mm / 0.79” Ø 22 mm / 0.87”
	**CIRCUS™ TAMPER LOOP**	NXP NTAG213 TT	1152 bit / 144 byte	24 × 54 × 10 mm 0.95 × 2.1 × 0.39”
	BLOCK ON-METAL	NXP ICode SLIX2	2500 bit / 312.5 byte	47 × 47 mm / 1.77 × 1.77” 50 × 50 mm / 1.96 × 1.96”
	BULLSEYE™	NXP NTAG213 NXP NTAG216	1152 bit / 144 byte 7104 bit / 888 byte	Ø 35 mm / 1.38” Ø 38 mm / 1.50”
	BULLSEYE™	NXP NTAG210	384 bit / 48 byte	Ø 35 mm / 1.38” Ø 38 mm / 1.50”
	BULLSEYE™	Sony FeliCa Lite-S	1792 bit / 224 bytes	Ø 35 mm / 1.38” Ø 38 mm / 1.50”
	BULLSEYE™ ON-METAL	NXP NTAG213	1152 bit / 144 byte	Ø 35 mm / 1.38” Ø 38 mm / 1.50”
	**MIDAS**	NXP NTAG213	1152 bit / 144 byte	10 × 17 mm / 0.39 × 0.67” 12 × 19 mm / 0.47 × 0.75”
	MIDAS+	NXP NTAG210 Micro NXP NTAG213	384 bit / 48 byte 1152 bit / 144 byte	11,5 × 19 mm / 0.45 × 0.75” 13,5 × 21 mm / 0.53 × 0.83”

Additional memory, protocol and product configurations are available upon request.
Note: Pictures are for illustration only and are not to scale.

IC Total Memories

- NXP ICode SLIX2 2500 bit 312.5 byte
- NXP NTAG210 384 bit 48 byte
- NXP NTAG210 Micro 384 bit 48 byte
- NXP NTAG213 1152 bit 144 byte
- NXP NTAG213 TT 1152 bit 144 byte
- NXP NTAG216 7104 bit 888 byte
- Sony FeliCa Lite-S 1792 bit 224 bytes

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