



## THE SMARTRAC PRODUCT RANGE IN HF & NFC RFID TECHNOLOGY.

### TYPICAL END-USE AREAS:

- ▶ Library and Media Management
- ▶ Pharmaceuticals and Healthcare
- ▶ Event and Transit Ticketing
- ▶ Loyalty Cards
- ▶ Product Authentication
- ▶ Peer-to-Peer Pairing
- ▶ Social Media and Ads




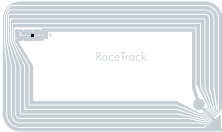
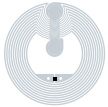
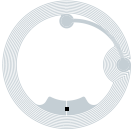

With a wide selection of antenna choices and protocols, our HF & NFC tags and inlays offer great application flexibility and fit-for-function design in the most demanding applications.

HF & NFC 13.56 MHz ISO-compliant RFID technology is a proven, globally accepted solution for a vast array of markets. The technology is a perfect fit for item-level authentication and asset tracking solutions in pharmaceutical and medical applications. Popular industry applications consist of library and rental item-level tagging for automated self checkout and return of printed and digital media, as well as industrial closed loop systems for manufacturing automation. RFID can also be utilized as personal currency in ticketing and customer loyalty card applications.

HF & NFC RFID technology offers proven robust performance with short-to-medium read ranges even when used around difficult materials such as liquids and metals.

SMARTRAC's operations are certified to the ISO 9001:2008 Quality Management System standards and the ISO 14001:2004 Environmental Management System standards.

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	Product Name	Frequency	Protocol	Memory (Optional)	Antenna & Die-cut Size
	<b>MiniBlock™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1 ISO 14443 A / NFC	1k bit / 2k bit 512 bit / 8k bit	14.5 x 14.5 mm / 0.6 x 0.6" 18 x 18 mm / 0.7 x 0.7"
	<b>MiniTrack™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1 ISO 14443 A / NFC	1k bit / 2k bit 512 bit / 8k bit	14 x 31 mm / 0.6 x 1.2" 18 x 36 mm / 0.7 x 1.4"
	<b>Block™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1	1k bit / 2k bit	47 x 47 mm / 1.9 x 1.9" 50 x 50 mm / 2.0 x 2.0"
	<b>RaceTrack™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1 ISO 14443 A / NFC	1k bit / 2k bit 512 bit / 64k bit	45 x 76 mm / 1.8 x 3.0" 49 x 81 mm / 1.9 x 3.2"
	<b>Circus™</b>	13,56 MHz	ISO 15693 ISO 18000-3 Mode 1 ISO 14443 A / NFC	1k bit / 2k bit 512 bit / 1.3k bit	16 mm / 0.6" 19 mm / 0.7" 23 mm / 0.9" 25 mm / 1.0"
	<b>BullsEye™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1 ISO 14443 A / NFC	1k bit / 2k bit 512 bit / 32k bit	33 mm / 1.3" 40 mm / 1.6" 35 mm / 1.4" 38 mm / 1.5"
	<b>StingRay™</b>	13.56 MHz	ISO 15693 ISO 18000-3 Mode 1	1k bit / 2k bit	105 mm / 4.1" 108 mm / 4.3"

Additional memory, protocol and product configurations are available upon request.

Note: Pictures are for illustration only and are not to scale.