



HF Inlays and Tags

Product Range

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

HF 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 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.

Overview

Operating Frequency

13.56 MHz

International Standards










- ▶ ISO 15693
- ▶ ISO 18000-3 Mode 1
- ▶ ISO 18000-3 Mode 3

Typical End-user Areas

- ▶ Access Control
- ▶ Document Management
- ▶ Healthcare
- ▶ Loyalty Cards
- ▶ Media Management
- ▶ Product Authentication
- ▶ Public Transportation
- ▶ ... and many more

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Product Range (selection)

Product	Product Name	Protocol	IC	Antenna & Die-cut Size
	MiniBlock	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family	14.5 x 14.5 mm / 0.6 x 0.6 '' 18 x 18 mm / 0.7 x 0.7 ''
	MiniTrack	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family	14 x 31 mm / 0.6 x 1.2 '' 18 x 36 mm / 0.7 x 1.4 ''
	Block Lite	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family NXP ICODE SLIX2 family	47 x 47 mm / 1.9 x 1.9 '' 50 x 50 mm / 2.0 x 2.0 ''
	Block	ISO 18000-3 Mode 3	NXP ICODE ILT-M family	45 x 45 mm / 1.77 x 1.77 '' 48 x 48 mm / 1.89 x 1.89 ''
	RaceTrack Lite	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family NXP ICODE SLIX2 family	45 x 76 mm / 1.8 x 3.0 '' 49 x 81 mm / 1.9 x 3.2 ''
	Circus	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family	∅ 18 mm / 0.7 '' ∅ 21 mm / 0.8 ''
	BullsEye	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family NXP ICODE SLIX2 family	∅ 33 mm / 1.3 '' ∅ 40 mm / 1.6 ''
	StingRay	ISO 15693 ISO 18000-3 Mode 1	NXP ICODE SLIX family NXP ICODE SLIX2 family	∅ 105 mm / 4.1 '' ∅ 108 mm / 4.3 ''
	H015 H044	ISO 14443 A/B	NXP MIFARE family Classic & Ultralight NXP ICODE SLIX TI Plus	22.5 x 38.0 mm / 0.89 x 1.50 ''

Additional memory, protocol and product configurations are available upon request. | Note: Pictures are for illustration only and are not to scale. | *Chip position varies in the different antenna designs.

IC Total Memories

- ▶ NXP ICODE SLIX 1k bit
- ▶ NXP ICODE SLIX2 2.5k bit
- ▶ NXP ICODE ILT-M 240 bit EPC + 512 bit
- ▶ NXP MIFARE Ultralight 64 byte - 192 byte
- ▶ NXP MIFARE Classic 1k 1024 byte
- ▶ STM LRI2K 2048 bit
- ▶ TI Standard 32 byte / TI 2k 256 byte

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