

## MAXDURA® Hard Tags

### HF Product Range

Available in a wide range of shapes, sizes, designs and form factors, Smartrac's HF hard tags offer superior performance and are supplied with ICs from leading manufacturers.

Due to their ultra-robust housing, Smartrac's MAXDURA® range of HF hard tag products excel in demanding and harsh environments commonly found in the manufacturing, aerospace, automotive, maritime, oil, gas and chemical industries, as well as logistics and supply-chain applications. MAXDURA's key features include resistance to dust, chemicals and mechanical stress, and protection against temporary immersion in water. Selected hard tags also offer on-metal capabilities and high-temperature resistance.

Most of Smartrac's hard tag products can benefit from the capabilities of Smart Cosmos: Smartrac's IoT platform can record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

Smartrac's hard 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.

#### Overview

#### Operating Frequency

13.56 MHz

#### International Standards

#### HF Standards


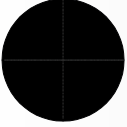


- ▶ ISO 14443 A, NFC Forum
- ▶ ISO 15693
- ▶ ISO 18 000-3

#### Typical End-user Areas

- ▶ Automotive
- ▶ Healthcare
- ▶ Industry
- ▶ Supply Chain & Asset Management
- ▶ ... and many more

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HF Product Range

Product	Product Name	IC	Dimensions
	<b>MAXDURA® Mini</b> ISO 15693 ISO 18000-3 IP67	NXP ICODE® SLIX NXP ICODE® SLIX-S	Ø 6 mm / 0.24 in
	<b>MAXDURA® DISC</b> ISO 15693 ISO 18000-3 IP67	NXP ICODE® SLIX, SLIX2 & NXP ICODE® SLI-L, Fujitsu FRAM 2kB, rev. C	Ø 16 mm / 0.63 in Ø 20 mm / 0.79 in Ø 30 mm / 1.18 in Ø 50 mm / 1.97 in
	<b>MAXDURA® CASE</b> ISO 15693 ISO 18000-3 IP68	NXP ICODE® SLI & SLIX	51 × 51 mm / 2.01 × 2.01 in
	<b>MAXDURA® LAUNDRY</b> ISO 15693 ISO 18000-3	EM4033 DFN	Ø 16.1 mm / 0.63 in

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 SLIX 1 k bit
- ▶ NXP ICODE SLIX2 2.5k bit
- ▶ NXP ICODE SLIX-S 1280 bit
- ▶ NXP ICODE SLI 896 bit
- ▶ NXP ICODE SLI-L 512 bit
- ▶ EM4033 64bit read-only UID, no user memory
- ▶ Fujitsu FRAM 2k

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