



MAXDURA® Hard Tags

RAIN RFID (UHF) Product Range

Smartrac's RAIN (UHF) hard tags offer market-leading performance, and are available in various designs and form factors, with ICs from leading manufacturers such as NXP or Impinj.

With its MAXDURA® standard RAIN hard tags, together with highly customized customer-specific transponder products, Smartrac offers a broad range of RFID transponders for use in demanding and harsh environments. Hence, these ultra-robust tags excel in manufacturing, aerospace, automotive, maritime, oil, gas and chemical industries, as well as logistics and supply-chain applications.

Designed to meet specific requirements and compliant with RAIN RFID frequency standards, 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

860 - 960 MHz

International Standards


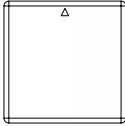
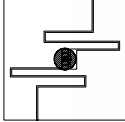
- ▶ ISO 18000-6C
EPC Class 1 Gen 2

Typical End-user Areas

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

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Product	Product Name	IC	Dimensions
	MAXDURA® BOND ETSI, IP68 On-metal application	Impinj Monza® 4QT	29 × 58 × 6 mm 1.14 × 2.28 × 0.24 in
	MAXDURA® CASE FCC, IP68 High temperature application	Alien Higgs 3	50 × 50 × 12 mm 1.97 × 1.97 × 0.47 in
	MAXDURA® TURTLE ETSI, IP68 High temperature & on-metal application	NXP UCODE® 7xm	28 × 28 × 4 mm 1.10 × 1.10 × 0.16 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

- ▶ Alien Higgs 96 bit EPC extendable up to 480 bits + 5 12 bit user memory
- ▶ Impinj Monza 4QT 128 bit EPC + 512 bit user memory
- ▶ NXP UCODE 7xm 448 bit EPC + 2048 bit user memory

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