



RAIN RFID (UHF) Inlays & Tags

Product Range

Smartrac's RAIN RFID* inlays and tags offer market-leading performance and memory options, and are available with a wide variety of high-performance IC platforms. Each product has a unique TID and a broadband RFID antenna design that enables end users to reach and sustain consistently high levels of performance, in all global UHF frequency regions, with the same tag. This represents a significant competitive and operational advantage for almost any enterprises dealing with manufacturing, distribution and customers located in different parts of the world. The same RFID tag can be used by the manufacturer, the logistics service provider and the retailer, to track and identify products accurately and cost-efficiently throughout the supply chain at item level.

Smartrac RAIN RFID inlays & tags 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 operations are certified to ISO 9001:2015 Quality Management System standards and ISO 14001:2015 Environmental Management System standards.

Overview

Operating Frequency

860 - 960 MHz

International Standards

- ▶ ISO 18000-6C
EPC Class 1 Gen 2













Application Areas

- ▶ Healthcare
- ▶ Industrial Applications
- ▶ Retail
- ▶ Supply Chain & Asset Management
- ▶ ... and many more

* RAIN RFID is a wireless technology that connects billions of everyday items to the internet, enabling businesses and consumers to identify, locate, authenticate, and engage each item. RAIN technology is based on the UHF RFID protocol standard.
(Source: rainrfid.org/about-rain/what-is-rain/)

RAIN RFID (UHF) Inlays & Tags

Product Range (selection)

Product	Product Name	IC	Die-cut Size
	TRAP	Impinj Monza [®] 4 family	11 × 25 mm / 0.4 × 1.0"
	GRILLE & FLY	NXP UCODE 7×m, 7×m+, DNA	25 × 25 mm / 1.0 × 1.0" 15 × 15 mm / 0.6 × 0.6"
	BLING	Impinj Monza R6 family	25 × 15 mm / 1.0 × 0.6"
	ACCESSORY	Impinj Monza R6 family	33 × 18 mm / 1.3 × 0.7"
	MINIWEB	NXP UCODE [®] G2iL, G2iM 7, 7×m, 7×m+, DNA Impinj Monza R6 family	43 × 21 mm / 1.7 × 0.8"
	WEB	Impinj Monza 4, R6 family NXP UCODE G2iL, G2iM, 7	34 × 54 mm / 1.3 × 2.1"
	BELT	Impinj Monza R6 family	73 × 13 mm / 2.87 × 0.51"
	ON-METAL TAG	Impinj Monza 4QT	98 × 43 mm / 3.86 × 1.69"
	MIDAS FLAGTAG[®]	Impinj Monza R6	60 × 21 mm / 2.4 × 0.8"
	FROG 3D[™]	Impinj Monza 4 family	76 × 76 mm / 3.00 × 3.00" 68 × 68 mm / 2.68 × 2.68" 43 × 43 mm / 1.69 × 1.69"
	SHORTDIPOLE	Impinj Monza 4, R6 family NXP UCODE G2iL, G2iM, 7	97 × 15 mm / 3.8 × 0.6"
	DOGBONE[™]	Impinj Monza 4 & R6 family NXP UCODE G2iL, G2iM, 7, 7×m, 7×m+, DNA	97 × 27 mm / 3.8 × 1.1"

Additional memory, protocol and product configurations are available upon request. Note: Pictures are for illustration only and are not to scale. Please visit our product selector for more product details: smartrac-group.com/product-selector

IC Total Memories

- ▶ Impinj Monza R6 96 bit EPC
- ▶ Impinj Monza R6-P 128 bit EPC + 32 bit
- ▶ Impinj Monza 4D 128 bit EPC + 32 bit
- ▶ Impinj Monza 4E 496 bit EPC + 128 bit
- ▶ Impinj Monza 4QT 128 bit EPC + 512 bit
- ▶ Impinj Monza 4i 256 bit EPC + 480 bit
- ▶ NXP U-Code 7/8 128 bit EPC
- ▶ NXP UCODE 7×m/7×m+ 448 bit EPC, 2048 bit user memory (7×m+ incl. digital signature)
- ▶ NXP UCODE DNA 224 bit EPC, 3072 bit user memory
- ▶ NXP U-Code G2iL 128 bit EPC
- ▶ NXP U-Code G2iM 256 bit EPC + 512 bit

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