



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.

In conjunction with Metrics, a solution based on SMARTRAC's enablement platform SMART COSMOS, RAIN RFID inlays and tags can enhance control throughout the supply chain, from product inventory management for warehouses through product authentication.

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













Typical End-user 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: rainfid.org/about-rain/what-is-rain/)

RAIN RFID (UHF) Inlays & Tags

Product Range (selection)

Product	Product Name	IC	Antenna & Die-cut Size
	TRAP	Impinj Monza® 4 family	8 × 22 mm / 0.3 × 0.9" 11 × 25 mm / 0.4 × 1.0"
	ACCESSORY	Impinj Monza R6 family	30 × 15 mm / 1.2 × 0.6" 33 × 18 mm / 1.3 × 0.7"
	BLING	Impinj Monza R6 family	22 × 12 mm / 0.9 × 0.5" 25 × 15 mm / 1.0 × 0.6"
	MINIWEB	NXP UCODE® G2iL, G2iM 7, 7xm, 7xm+, DNA Impinj Monza R6 family	40 × 18 mm / 1.6 × 0.7" 43 × 21 mm / 1.7 × 0.8" 42 × 16 mm / 1.7 × 0.6" 43 × 21 mm / 1.7 × 0.8"
	FLY	NXP UCODE 7xm, 7xm+, DNA	12 × 12 mm / 0.5 × 0.5" 15 × 15 mm / 0.6 × 0.6"
	GRILLE	NXP UCODE 7xm, 7xm+, DNA	22 × 22 mm / 0.9 × 0.9" 25 × 25 mm / 1.0 × 1.0"
	WEB	Impinj Monza 4, R6 family NXP UCODE G2iL, G2iM, 7	30 × 50 mm / 1.2 × 2.0" 34 × 54 mm / 1.3 × 2.1"
	BELT	Impinj Monza R6 family NXP UCODE G2iL, G2iM, 7, 7xm, 7xm+, DNA	70 × 10 mm / 2.76 × 0.39" 73 × 13 mm / 2.87 × 0.51" 70 × 14 mm / 2.8 × 0.6" 73 × 17 mm / 2.9 × 0.7"
	ON-METAL TAG	Impinj Monza 4QT ETSI & FCC band	95 × 40 mm / 3.74 × 1.58 " 98 × 43 mm / 3.86 × 1.69 "
	FROG 3D™	Impinj Monza 4 family	50 × 50 or 68 × 68 mm / 1.97 × 1.97 or 2.68 × 2.68" 53 × 53 or 76 × 76 mm / 2.09 × 2.09 or 3.00 × 3.00"
	SHORTDIPOLE	Impinj Monza 4, R6 family NXP UCODE G2iL, G2iM, 7	93 × 11 mm / 3.7 × 0.4" 97 × 15 mm / 3.8 × 0.6"
	DOGBONE™	Impinj Monza 4 & R6 family NXP UCODE G2iL, G2iM, 7, 7xm, 7xm+, DNA	94 × 24 mm / 3.7 × 0.9" 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.

IC Total Memories

- ▶ 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 R6 96 bit EPC
- ▶ Impinj Monza R6-P 128 bit EPC + 32 bit
- ▶ NXP U-Code G2iL 128 bit EPC
- ▶ NXP U-Code G2iM 256 bit EPC + 512 bit
- ▶ NXP U-Code 7 128-bit EPC
- ▶ NXP UCODE 7XM 448bit EPC,
2048 bit user memory
- ▶ NXP UCODE 7XM+ 448bit EPC, 2048
bit user memory , incl. digital signature
- ▶ NXP UCODE DNA 224 bit EPC
3072 bit user memory

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