



MIDAS FLAGTAG®

Outperforming Tag for Metallic Surfaces and Everyday Objects

Smartrac's MIDAS FLAGTAG® is designed for item-level tagging on diverse surfaces, especially metallic surfaces like foil packaging, and offers excellent performance in less demanding physical environments. It can be applied to metallic surfaces of retail, pharma or industrial items.

MIDAS FLAGTAG is a cost-efficient RAIN RFID (UHF) on-metal solution for product or part authentication, supply chain & asset management, when compared to other foam-based inlays and hard tags designed for use in tougher environmental conditions. The tag can also be used on plastic and cardboard surfaces and works as a standard tag.

MIDAS FLAGTAG has an innovative small form factor with a total size of 60 × 21 mm when used as a standard flat paper tag. Its special feature is that a flag can be created at the end of tag with a final paper tag size of 43 × 21 mm after folding, and with an exposed flag size of 17 × 21 mm. The folded part of the tag sticks out of the metal like a flag, and the attached antenna part uses the metal surface as part of the antenna structure to increase the performance of the tag. Read distances of over 10 meters can be achieved, depending on the geometry and size of the metal object. The tags are compatible with RFID printers for easy printing and encoding.

Smartrac's MIDAS FLAGTAG is equipped with the Impinj Monza R6 IC that features an Autotune function, which helps MIDAS FLAGTAG to work at peak efficiency, even in rapidly changing environments. Furthermore, the Monza R6 chip offers unique TID, enabling pre-serialized EPC, and is 100% performance tested.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

Impinj Monza R6

Impinj Monza R6-P

Antenna Size

31.4 × 18 mm (1.2 × 0.7 in)

Die-cut Size

60 × 21 mm (2.4 × 0.8 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

- ▶ Retail e.g. for foil packaging, cosmetics, beverages
- ▶ Industry e.g. for metallic assets, steel
- ▶ Healthcare e.g. for surgical consumables

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Technical Features				
IC + Memory*	Size	Format	Sales Code	Adhesive
Impinj Monza R6	31.4 × 18 mm / 1.2 × 0.7 in	Dry	3005881 (FCC)	
96 bit EPC	60.0 × 21 mm / 2.4 × 0.8 in	Wet	3005582 (FCC)	RA-2
Impinj Monza R6-P	60.0 × 21 mm / 2.4 × 0.8 in	Wet	3006845 (ETSI)	RA-2
128 bit EPC + 32 bit user	60.0 × 21 mm / 2.4 × 0.8 in	Wet	3006799 (FCC)	RA-2
96 bit EPC + 64 bit user	60.0 × 21 mm / 2.4 × 0.8 in	Wet	3007005 (FCC)	RA-25
Web Width	63 mm / 2.5 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	Solvent-free permanent adhesive			
Core Size	76 mm / 3 in			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			

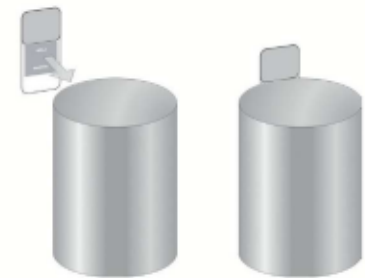
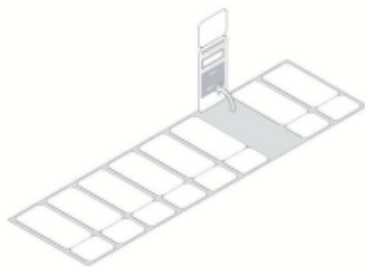
*Note: Available with Impinj Monza R6-P upon request.

Folding Instruction

1. Peel off MIDAS FLAGTAG® from substrate material, delivered in roll format.

2. Fold the white rectangle part along the perforation line to cover the transponder.

3. Apply the tag with the visible transponder area onto the metallic object and allow the folded flag to stick out.



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