



The RFID product range from UPM Raflatac

Global UHF RFID tags and inlays

UPM Raflatac presents its UHF product line offering for the global market.

The broadband RFID antenna design enables end-users to reach and sustain consistently high levels of performance in all UHF frequency regions around the world with the same tag, regardless of the local frequency regulations. This represents critical competitive and logistical advantages for any fast-moving consumer goods (FMCG) company 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.

Typical end-use areas:

- Supply Chain Management
- Industrial
- Apparel and Brand Protection
- Transportation
- Pharma, Healthcare and Life Sciences

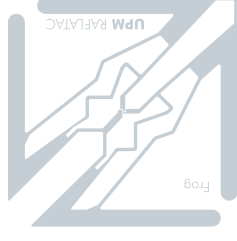
UPM Raflatac's RFID operations are certified to ISO 9001 quality standards and ISO 14001 environmental standards.

UPM Raflatac. Pro RFID.

www.upmraflatac.com

UPM RAFLATAC

UPM Raflatac Global UHF RFID Standard Product Offering



RF features	Gem 10 x 30 mm	Web ⁺ 30 x 50 mm	Belt ⁺ 70.2 x 14.5 mm	ShortDipole ⁺ 93 x 11 mm ShortDipole ⁺ 92 x 11 mm	DogBone 93 x 23 mm DogBone ⁺ 93 x 23 mm	Hammer 76.5 x 23 mm	Frog 68 x 68 mm
Operating frequency	868 MHz 915 MHz 950 MHz	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz
Global tag (broadband)	●	●	●	●	●	●	●
Protocol & memory							
Protocol	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2	ISO 18000-6C EPC Class1 Gen2
EPC memory	96 bit	96 bit	96 bit	96 bit	96 bit	96 bit	96 bit
Additional user memory		240 bit Option 1 240+512 bit Option 2	240 bit Option 1 240+512 bit Option 2	240 bit Option 1 240+512 bit Option 2	240 bit Option 1 240+512 bit Option 2		
Delivery format							
Dry	●	●	●	●	●	●	●
Wet	●	●	●	●	●	●	●
Tag (paper face)	●	●	●	●	●	●	●
Physical features							
Antenna size	10 x 30 mm 0.394 x 1.181"	30 x 50 mm 1.181 x 1.969"	70.2 x 14.5 mm 2.764 x 0.571"	93 x 11 mm / 3.661 x 0.433" 92 x 11 mm / 3.622 x 0.433"	93 x 23 mm 3.661 x 0.906"	76.5 x 23 mm 3.010 x 0.910"	68 x 68 mm 2.677 x 2.677"
Die-cut size	13 x 33 mm 0.518 x 1.299"	34 x 54 mm 1.339 x 2.126"	73.2 x 17 mm 2.882 x 0.669"	97 x 15 mm 3.819 x 0.590"	97 x 27 mm 3.819 x 1.063"	80 x 25 mm 3.150 x 0.980"	76.2 x 76.2 mm 3 x 3"
End-use							
Supply Chain Management		• item-level product • orientation insensitive	• narrow form factor • case- and item-level	• pallet, case- and item-level	• enhanced performance • near-metal • pallet, case- and item-level	• narrow form factor • enhanced performance • near-metal • pallet, case- and item-level	• high performance • omnidirectional • case- and pallet-level
Industrial		• compact • orientation insensitive	• narrow form factor • compact • case- and item-level	• cost/performance leader	• enhanced performance • near-metal	• narrow form factor • enhanced performance • near-metal	• high performance • omnidirectional
Apparel and Brand Protection	• item authentication • brand protection	• item authentication	• narrow form factor • case- and item-level	• pallet, case- and item-level	• case- and pallet-level		
Transportation		• short range tags, labels, passes	• narrow form factor	• cost/performance leader	• enhanced performance • near-metal	• narrow form factor • enhanced performance • near-metal	• high performance • omnidirectional • case- and pallet-level
Pharma, Healthcare and Life Sciences	• item authentication • brand protection	• case-, carton- and item-level	• narrow form factor • case- and item-level	• pallet, case- and item-level	• case- and pallet-level	• narrow form factor • enhanced performance • near-metal	• high performance • omnidirectional • case- and pallet-level

* Near-field UHF products are listed on UPM Raflatac's near-field UHF item-level tagging product card.