



WE LEAD.
WE LEARN.



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 globe 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 customer locations 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 through the supply chain.

Typical end-use areas:

- Supply Chain
- Industrial
- Fashion & Brand Authentication
- Transportation
- Pharma, Health & Life Sciences

UPM Raflatac. Pro RFID.

UPM Rafflatac Global UHF RFID Standard Product Offering



Pictures are for illustration only and are not to scale.

	Mini Series		ShortDipole Series		Enhanced Series		Power Series
RF features	Minidipole	Web	Belt	Short Dipole	DogBone	Hammer	Frog
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 C1 Gen2	ISO 18000-6C EPC C1 Gen2	ISO 18000-6C EPC C1 Gen2	ISO 18000-6C EPC C1 Gen2	ISO 18000-6C EPC C1 Gen2	ISO 18000-6C EPC C1 Gen2	ISO 18000-6C EPC C1 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+512bit Option 2	240-bit Option 1 240+512bit Option 2	240-bit Option 1 240+512bit Option 2	240-bit Option 1 240+512bit Option 2		
Delivery format							
Dry	●	●	●	●	●	●	●
Wet	●	●	●	●	●	●	●
Tag (paper face)	●	●	●	●	●	●	●
Physical features							
Antenna dimensions	21 x 21 mm 0.83 x 0.83 in.	30 x 50 mm 1.18 x 1.97 in.	70 x 15 mm 2.76 x 0.58 in.	93 x 11 mm 3.66 x 0.43 in.	93 x 23 mm 3.66 x 0.91 in.	77 x 23 mm 3.01 x 0.91 in.	68 x 68 mm 2.68 x 2.68 in.
Die-cut dimensions	24 x 24 mm 0.95 x 0.95 in.	34 x 54 mm 1.38 x 2.13 in.	73 x 17 mm 2.88 x 0.67 in.	97 x 15 mm 3.82 x 0.59 in.	97 x 27 mm 3.82 x 1.06 in.	80 x 25 mm 3.15 x 0.98 in.	76 x 76 mm 3.00 x 3.00 in.
Pitch	30 mm 1.18 in.	60 mm 2.36 in.	20 mm 0.79 in.	20 mm 0.79 in.	40 mm 1.57 in.	40 mm 1.57 in.	80 mm 3.15 in.
End-use							
Supply chain		<ul style="list-style-type: none"> ● item-level orientation insensitive 	<ul style="list-style-type: none"> ● narrow form factor case- and item-level 	<ul style="list-style-type: none"> ● pallet-, case- and item-level 	<ul style="list-style-type: none"> ● enhanced performance near-metal ● pallet-, case- and item-level 	<ul style="list-style-type: none"> ● narrow form factor enhanced performance near-metal 	<ul style="list-style-type: none"> ● high performance omnidirectional case- and pallet-level
Industrial	<ul style="list-style-type: none"> ● item-level 	<ul style="list-style-type: none"> ● compact orientation insensitive 	<ul style="list-style-type: none"> ● narrow form factor compact 	<ul style="list-style-type: none"> ● cost-/performance leader 	<ul style="list-style-type: none"> ● enhanced performance near-metal 	<ul style="list-style-type: none"> ● narrow form factor enhanced performance near-metal 	<ul style="list-style-type: none"> ● high performance omnidirectional
Fashion & brand authentication	<ul style="list-style-type: none"> ● item authentication 	<ul style="list-style-type: none"> ● item authentication 	<ul style="list-style-type: none"> ● narrow form factor case-and item-level 	<ul style="list-style-type: none"> ● pallet-, case- and item-level 	<ul style="list-style-type: none"> ● case- and pallet-level 		
Transportation		<ul style="list-style-type: none"> ● short range tags, labels, passes 	<ul style="list-style-type: none"> ● narrow form factor 	<ul style="list-style-type: none"> ● cost-/performance leader 	<ul style="list-style-type: none"> ● enhanced performance near-metal 	<ul style="list-style-type: none"> ● narrow form factor enhanced performance near-metal 	<ul style="list-style-type: none"> ● high performance omnidirectional case- and pallet-level
Pharma, health & life sciences	<ul style="list-style-type: none"> ● item authentication 	<ul style="list-style-type: none"> ● case-, carton- and item-level 	<ul style="list-style-type: none"> ● narrow form factor case-and item-level 	<ul style="list-style-type: none"> ● pallet-, case- and item-level 	<ul style="list-style-type: none"> ● case- and pallet-level 	<ul style="list-style-type: none"> ● narrow form factor enhanced performance near-metal 	<ul style="list-style-type: none"> ● high performance omnidirectional case- and pallet-level

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

