



WE LEAD.
WE LEARN.



The RFID product range from UPM Raflatac

Near-field UHF item-level tags and inlays

UPM Raflatac presents its UHF item-level tag & inlay offering, based on UHF near-field and far-field technologies, designed for the global adoption of item-level tagging (ILT).

UPM Raflatac item-level tags and inlays operate under the principals of near-field magnetic coupling (Near-Field) or a combination of near-field and far-field radiation (Far-Field) principals of UHF RFID technology. Based on standardized global protocol ISO 18000-6C and a broadband RFID antenna design, these item-level tags and inlays promote proliferation of item-level tagging in all UHF frequency regions around the globe. Implementation of UHF ILT leverages single RFID infrastructure providing critical competitive and logistical advantages in item-level identification authentication and traceability.

UHF ILT technology attributes:

- Global standardization – ISO18000-6C
- Near-field sensitivity – very close read range
- Far-field sensitivity – long read range
- Performance
- Leveraging single UHF infrastructure
- Scalability

UPM Raflatac. Pro RFID.

UPM Raflatac RFID Products for Near-Field UHF Item-Level Tagging



Physical features	Button™	PaperClip™	Satellite™
Antenna dimensions	11mm / 0.43 in.	17 x 8mm / 0.67 x 0.32 in.	32 x 18mm / 1.26 x 0.71 in.
Die-cut dimensions	13mm / 0.51 in.	20 x 11mm / 0.79 x 0.43 in.	36 x 22mm / 1.42 x 0.87 in.
Pitch	20mm / 0.79 in.	20mm / 0.79 in.	30mm / 1.18 in.
RF features			
Near-field	●	●	●
Far-field			●
Operating frequency	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz
Global tag (Broadband)	●	●	●
Protocol & memory			
Protocol	ISO18000-6C / EPC C1 Gen2	ISO18000-6C / EPC C1 Gen2	ISO18000-6C / EPC C1 Gen2
Memory	96-bit	96-bit	96-bit
Delivery format			
Dry inlay	●	●	●
Wet inlay	●	●	●
Tag (paper face)			●
End-use			
Pharma, health & life sciences	vials, bottles, packs, cartridges, devices	vials, bottles, packs, cartridges, devices	assets, item-level packaging
Apparel & brand authentication	product item-level tagging	product item-level tagging	product and packaging item-level tagging, garments
Industrial	parts, assemblies and product tracking	parts, assemblies and product tracking	parts, assemblies and product tracking
Media management	documents, tapes, cartridges	documents, tapes, cartridges	documents, tapes, cartridges

Button™, PaperClip™ and Satellite™ are trademarks of Impinj, Inc.



www.upmraflatac.com

Pictures are for illustration only and are not to scale.