

RFID FOR PLASTIC RTIs

RTIs (Returnable Transit Items) play an integral role in supply chains everywhere. Companies use plastic pallets, totes, or containers to transport raw materials, parts, sub-assemblies or finished goods worldwide. These containers are re-used



thousands of times, travel millions of miles over diverse environmental conditions, and then endure industrial wash cycles to prep them for their next journey.

As an engineering company at heart, Confidex designed the inlay for optimum RF performance on the high surface energy plastics commonly used to injection mold these RTI containers. The Confidex Carrier family of tags offers an impressive read range which allows flexibility in the RFID system architecture. Whether you are reading via portals, overhead antennas, checkpoints, or conveyer systems – these tags deliver the distance needed to get reliable data everytime.



Tag placement: we recommend 2 tags per tote or pallet according to the RTI Pallet Tagging Guideline authored by GS1 organization



Applicable Industries:

- Automotive
- Food chain
- Healthcare
- + hundreds more...

Use-cases:

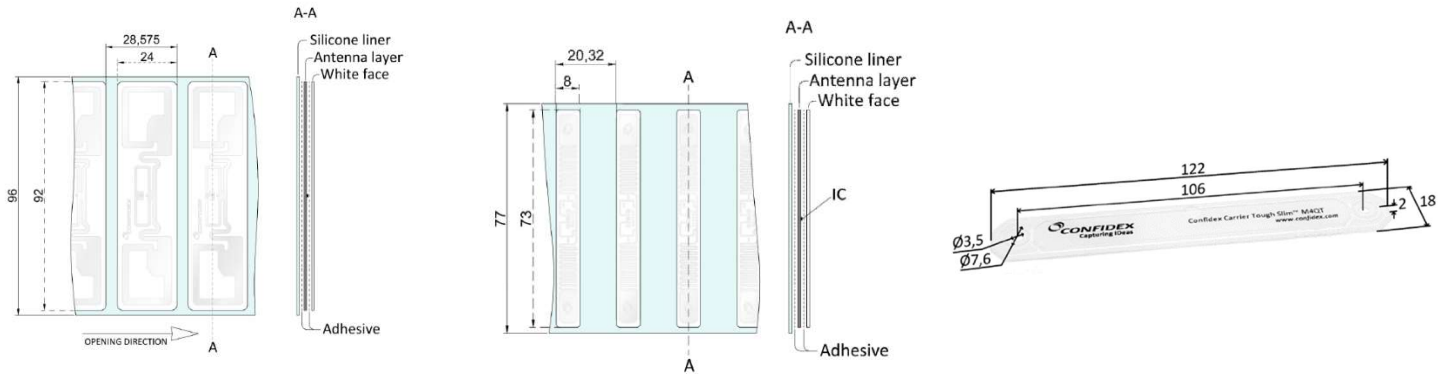
- Inbound/outbound logistics
- Supply chain management
- Warehouse management


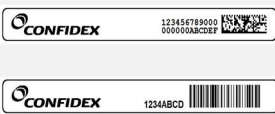

Key design details:

- Inlay tuned for best performance on plastics
- IP68- tags tolerate industrial pressure washing process
- Personalization
 - Label options compatible with 4" width RFID printers
 - Service bureau available
- Global frequency supports performance worldwide
- GS1 compliant
- EPC Gen 2 V2
- ISO17364- supply chain applications of RFID- RTIs and RPIs
- ISO17365- supply chain applications of RFID- Transport units



Use-case highlight for plastic returnable transit items



	Carrier Pro	Carrier	Carrier Tough Slim
Product structure	label	label	Encapsulated label with rigid protective layer
Memory	M4QT: 128 bit EPC + 512 bits user memory (default) M4E: 496 bit EPC + 128 bits user memory (optional)		
Read range (fixed reader)	12m	10m	12m
Read range (handheld)	~4.8m	~4m	~4.8m
Personalization	1D barcode, QR code, human readable, logo 	1D barcode, QR code, human readable, logo 	1D barcode, QR code, human readable, logo 
RFID printer compatible?	Yes	Yes	No- must be printed by our service bureau
Method of attachment	3M adhesive formulated for plastics	3M adhesive formulated for plastics	3M adhesive and attachment holes for rivets, bolts, or screws



Need an embeddable tag for your plastic containers? Confidex DesignStudio can design a tag tailored for your specific use-case!

Contact sales: nasales@confidex.com