

# RFID FOR METAL RTIs

RTIs (Returnable Transit Items) play an integral role in supply chains everywhere. Companies use metal racks, pallets, 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 these tags for optimum RF performance on metals but they will also work off-metal. The Confidex Ironside family of tags provides a robust housing to protect the tag memory throughout the container's journey and ensure reliable data capture at every step along the way. All hard tags are available in UL and ATEX compliant versions for use in the most rugged environments. Within this family of tags, you will find a rubberized option for higher temperature applications, reinforced options with compression limiters, and tamper-proof options when extra security is a must.



## Applicable Industries:

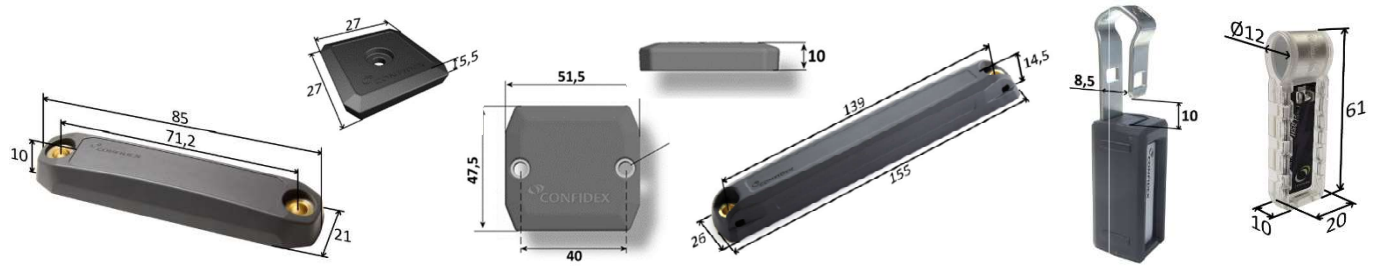
- Automotive suppliers
- Tire manufacturing
- Air/sea cargo logistics
- Industrial waste management
- + hundreds more...



## Use-cases:

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

## Key design details:

- Inlay tuned for best performance on metals
- IP68- tags tolerate industrial environments
- Ironside – *high temp up to 257°F for 1 hour*
- Ironside Slim & Survivor – *compression limiters*
- Captura & Captura Flash - *tamper-proof*
- Personalization
  - Service bureau available
- GS1 compliant
- EPC Gen 2 V2
- ISO17364- supply chain applications of RFID- RTIs and RPIs
- ISO17365- supply chain applications of RFID- Transport units



	Ironside Slim	Ironside Micro	Ironside	Survivor	Captura	Captura Flash
<b>Product structure</b>	Hard encapsulated tag	Hard encapsulated tag	Hard encapsulated tag	Hard encapsulated tag	Hard encapsulated tag	Flexible encapsulated tag
<b>Memory</b>	M4QT: 128 bit EPC + 512 bits user memory (default) M4E: 496 bit EPC + 128 bits user memory (optional)			M4QT: 128 bit EPC + 512 bits user memory	UCODE G2XM : 240 bit EPC + 512 bit user memory	Ucode 8m : 96 bit EPC + 32 bit user memory
<b>Read range (fixed reader)</b>	8m	4m	7m	18m	8m	12m
<b>Read range (handheld)</b>	~3m	~1.5m	~3m	~6m	~3.5m	~4m
<b>Personalization</b>	1D barcode, QR code, human readable, logo  - Data label - Laser engraving	1D barcode, QR code, human readable, logo  - Data label - Laser engraving	1D barcode, QR code, human readable, logo  - Data label - Laser engraving	1D barcode, QR code, human readable, logo  - Data label - Laser engraving	1D barcode, QR code, human readable, logo  - Data label	1D barcode, QR code, human readable, logo  - Data label
<b>Method of attachment</b>	- Rivets/bolt s/zip-ties - 3M adhesive formulated for metals - Magnets  	- Rivets/bolt s/zip-ties - 3M adhesive formulated for metals - Magnets	- Rivets/bolt s/zip-ties - 3M adhesive formulated for metals - Magnets - Welding bracket	- Rivets/bolt s/zip-ties - 3M adhesive formulated for metals - Magnets  	- Loop & clip on	- Loop & clip on



Need a specific color or mounting bracket for your project? Confidex DesignStudio can design a tag tailored for your specific use-case!

Contact sales: [nasales@confidex.com](mailto:nasales@confidex.com)

