

RFID in Rail Wagon Tracking

RFID system provides effective and fully automated tracking for locomotives, railroad cars, coaches and wagons. Detecting vehicle position, direction and side indicator is a must for safety reasons but it also gives logistical benefits in many locations.

RFID in Rail MRO

Railway operator's maintenance, repair and overhaul program for rolling and fixed stock includes numerous assets of which many are critical for smooth operations. RFID gives identity to each critical component and identification is a key to have reliable maintenance record and plan for each specific item. RFID identification is effortless and items can be identified even on-fly for example at rolling stock trackside diagnostic stations.

Confidex RFID tags are designed to meet the demanding conditions that railway assets are facing during the service.

Specifically *Confidex Ironside*™ RFID tag family includes leading performance outdoor tags for railway applications. Tags are available with versatile personalization options such as laser markings and attachment accessories upon request.







Haarlankatu 1B, FI-33230 Tampere, Finland tel. +358 10 4244 100 fax +358 10 4244 110 contact@confidex.com www.confidex.com

Offices in:

Europe - Americas - Asia Pacific





RFID Tags For Rail Wagon Tracking

	Confidex Ironside™	Confidex Ironside Slim™	Confidex License Plate Tag™	Confidex Survivor™	
Picture					
Read range	up to 9m/ 30 ft	up to 8m/ 26 ft		up to 11m/ 36 ft	
Tag attachment	Industrial glue + screws/ rivets	Industrial glue + screws/ rivets	Epoxy adhesive (or simi- lar) + rivets	Industrial glue + screws/ rivets	
RFID pre-encoding	GIAI-96, as per GS1 rail standard available on request				
Human readable marking	Human readable text and customer logo laser engraving available on request.				
Machine readable marking	Laser engraved barcode and/or datamatrix available on request.				

Note: The information herein is subject of change without prior notice. Please consult Confidex Ltd for the most current information and availability.

RFID Tags For Rail MRO Parts Marking

	Confidex Ironside Slim™	Confidex Ironside Micro™	Confidex Steelwave Micro™	Confidex custom designs	
Picture	GIM (8004)012345678 41234507890	GIAI (8004)11234 5678 41234567890	COMPREX (800A)012345678 (41234567890)	GE CONTROLLED	
Use case	Outdoor & indoor use Durable mechanics	Outdoor & indoor use Durable mechanics	Indoor use Small size	Outdoor use for specific attachment	
Read range	Up to 4m/ 13 ft with handheld	Up to 2m/ 6 ft with handheld	Up to 2m/ 6 ft with handheld	Depending on design	
Tag attachment	Screws, rivets, industrial adhesive	Screws, rivets, industrial adhesive	Tag's background adhe- sive	Hose tie, adhesive, bolt attachment.	
RFID pre-encoding	GS1 rail GIAI in EPC memory				
Human readable marking	GS1 rail GIAI number series				
Machine readable marking	GS1 rail GIAI 2D datamatrix				

Note: The information herein is subject of change without prior notice. Please consult Confidex Ltd for the most current information and availability.