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KORDSA RFID TECHNOLOGY



*Collaborating to create efficient, durable, easy
to apply RFID tags for future connected tires*



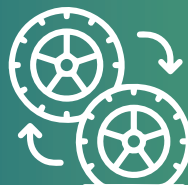
Our unique RFID solution enables



Delivery
Tracking



Stock
Management



Tire
Monitoring



Recycling and
Retreading

The first step towards digitalizing tires is the Ultra High Frequency (UHF) Radio Frequency Identification (RFID) technology.

The technology allows for end-to-end tire identification as well as fast and reliable data collection for its users. When placed in the field of a reader, RFID uses an electronic chip to transmit data without using a contact. RFID uses an electronic chip for contactless transmission of data when placed in the field of a reader. Once embedded in tires, the RFID tag enables global traceability from the point of manufacturing to the end of life, providing data advantages to tire manufacturers, automobile OEMs, distributors, and fleet management companies. Inventory management, logistics, warehouse management, and support services are some of the use cases for this technology.

In partnership with SES RFID Solutions GmbH, Kordsa created a compact, flexible, ready-to-use RFID tag that can be embedded into vehicle pneumatic tires prior to vulcanization. This RFID tag combines the patented SES technology with Kordsa's extensive material expertise. The RFID tag has been engineered to last the entire tire life cycle, including retrofit and retreading processes.

EMBEDDED RFID TIRE TAG TECHNICAL DATA SHEET

Characteristics

	Antenna Length*: 60-100 mm
	Transponder thickness: 3 mm
	Antenna Material: Hybrid cord
	Weight: Less than 0.15 g
	Applications: Embedded in the tire during manufacture
*60mm - 100mm depending on tire compound characteristics	

Performance

	Write endurance: 100 000 cycles
	Data retention: 10 years (-30°C~75°C)
	Operating temperature: (-20~70°C, 10%RH~80%RH)
	Compatible with tire curing process: up to 180°C and 30 bars at least.
	Read range*:
	Write range*:
*Depending on environment and reader	

Specifications

	Protocol: ISO-18000-63 EPC Global Gen2v2
	EPC memory: 128 bits programmable & lockable
	RFID Chip IC: Impinj Monza R-6P
	Cryptography: No

Use Case

	Asset Tracking
	Inventory and Logistics Management
	Retread Tracking
	End of Life Tire Management (Collecting-Sorting)

