

Linxens UHF Inlays for Automotive Industry

The perfect solution for production lines and supply chain management

Linxens Ultra High Frequency (UHF) Inlays are a highly secure, reliable and cost effective solution for all use cases in the automotive industry.




The UHF inlays enable car manufacturers to track automotive parts and assets, optimize their industrial production lines, and bring benefits to their inventory and supply chain management systems.

Our products are based on the latest, state-of-the-art UHF chip components available on the market. They have been developed for robust reading and writing performance in global standard UHF bands (860-960MHz), and are suited for use in harsh environments, high temperatures or on difficult materials such as metal or glass.

Linxens UHF inlays are **'Made In Germany'** and listed by the European EPC Competence Center (EECC) as one of the **Best Products** on the market.

Production sites are certified with **ISO 9001:2015** Quality Management System and **ISO 14001:2015** Environmental Management System standards.

Typical Product Designs

Antenna designs			
	TITANIUM	STEEL	CHROME
Antenna size*	24 x 94 mm	10 x 70 mm	30 x 50 mm
IC Family	NXP UCODE 8 / 7xm / DNA Impinj Monza R6-P	NXP UCODE 8 / 7xm / DNA Impinj Monza R6-P	NXP UCODE 8 / 7xm / DNA Impinj Monza R6-P
Delivery form	Single row on reel for all products	Single row on reel for all products	Single row on reel for all products
Ideal for	Very challenging environments, long distances with many reads at the same time	Very challenging environments with medium distances, many reads at the same time, and smaller form requirement than Titanium	Item level applications (e.g. Returnable Transport Items) with many objects to be tagged and read at the same time, for close to medium distances
Estimated read range**	[5 - 15m]	[2 - 10m]	Up to a few meters

*Other antenna sizes are available upon request.

**Indicative figures only; read range varies on various factors such as readers and environment.



Overview

Operating Frequency

- 860-960 MHz

International Standards

- ISO 18000-6C

Delivery Formats

- Dry Inlay
- Wet Inlay

Product Structure

- Aluminum antennas on PET substrate with 'flip-chip' mounted IC

Application Area

- Industrial Supply Chain
- Production lines
- Returnable Transport Items (RTI)
- Inventory Management, and many more...

Key Benefits

- Reliable identification
- Robust inlays for harsh environments
- High-temperature proof inlays
- Error and loss prevention
- Parts and assets traceability
- Inventory management performance
- Improved supply chain efficiency
- Cost effective solution
- Passive inlays: no battery needed