



Smart Manufacturing Solutions for Carmakers and Component Suppliers

RFID Technology from SMARTRAC and NXP Paves the Way to Industry 4.0

The automotive industry is constantly seeking to improve its manufacturing and logistics processes. For carmakers and component suppliers, RFID technology has become the main enabler for 'Industry 4.0' solutions that result in a dramatic increase in production efficiency.

Making the most of NXP's industry-leading IC technology, Smartrac offers a comprehensive range of RFID products specifically developed for automotive applications. Those transponders can be attached to parts, components and vehicles to connect them to the Internet of Things (IoT), thus providing the basis for Industry 4.0 solutions that will lead the industry to the next level.

Applying RFID technology from Smartrac and NXP results in smart, reliable, efficient and error-free manufacturing and supply chain processes.

Key Benefits

- Along the supply chain:
- ▶ Track & trace capabilities
 - ▶ Spare part and component authentication
 - ▶ Automation & process standardization
 - ▶ Increased production efficiency & flexibility
 - ▶ Improved inventory management
 - ▶ Higher distribution efficiency
 - ▶ Enhanced quality management

Application/Process	Recommended RFID Transponders*
Part and Component Tagging	BELT with NXP UCODE® 7xm, FLY with NXP UCODE 7xm GRILLE with NXP UCODE 7xm BULLSEYE™ with NXP ICODE® DNA
Production Control	High-temperature SHORTDIPOLE with NXP UCODE G2iM High-temperature ON-METAL TAG with NXP UCODE 7xm High-temperature Hard Tag with NXP ICODE SLIX
Car Logistics & Customer Service	DOGBONE™ with NXP UCODE DNA SHORTDIPOLE with NXP UCODE 7 BLOCK with NXP ICODE SLIX 2

* For detailed product information, please visit our product selector: smartrac-group.com/product-selector or nxp.com/products/identification-and-security/smart-label-and-tag-ics



Smartrac and NXP:

Top-Tier Companies Warrant Top-Tier RFID Products

Smartrac and NXP are leaders in their respective technology fields. Together, they are spearheading the market for RFID products designed for automotive applications, and providing the highest quality RFID offerings for the automotive industry.

Smartrac's NXP-based products and solutions are being used by most major automotive OEMs. Characterized by durability, reliability, flexibility and cost-efficiency, they are fully compliant with VDA recommendations to the automotive industry and supported by the leading automation companies globally.

Smartrac: Setting the Pace in RFID and Beyond

Smartrac offers a broad range of inlays and hard tags in the LF, HF or UHF band, which are available in standard or customized form factors and withstand all conditions that occur during automotive manufacturing & logistics processes.

In addition, Smartrac is expanding its scope of solutions with its IoT platform Smart Cosmos. This opens up entirely new opportunities, including innovative solutions for car and driver connection, or spare part and component authentication.

NXP: A Portfolio Driven by Innovation

As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy, and smart connected solutions markets.

The rapid increase of electronic content, connected and self-driving cars, the growing market for connected industrial electronics and the need for transparent supply chains along with the proliferation of smart mobile devices are demanding secure and fast processing, and are all supported by NXP's technology innovation and security leadership.

NXP is the #1 IC supplier to the automotive industry. From the end node to the cloud, NXP provides an unrivalled portfolio for supporting the incredible growth of connected solutions including sensors, microcontrollers, microprocessors, security and connectivity products.

Choose the Best!

Together, SMARTRAC and NXP are the winning formula to key challenges in the automotive industry. For more information, please contact our sales team or visit smartrac-group.com and nxp.com.