



Your Partner for Innovative Middleware Solutions in the Mobility Sector

About Us

Qorix is a leading technology company that provides innovative and powerful middleware solutions for the mobility ecosystem, especially in the transition towards software-defined vehicles (SDV). Our solutions enable automotive manufacturers and suppliers to manage the growing complexity of software while maintaining complete control over their architecture.

Our Solutions

Qorix middleware ensures a global, secure, and robust software ecosystem that can be quickly deployed in future vehicles. Our product portfolio includes AUTOSAR Classic and Adaptive solutions, as well as Qorix's own Performance stack, specifically designed to meet the demands of future software-defined vehicles.

Our Expertise

With around 300 employees worldwide, Qorix offers leading expertise in embedded middleware, focusing on global software product delivery.

Our Mission

We aim to create a global, safe, and high-performance software ecosystem for rapid deployment in future vehicles.

Our Vision

To be the worldwide leader in middleware for software-defined vehicles.

Our Heritage

Founded as a joint venture between KPIT Technology Ltd. and ZF, with Qualcomm as a strategic shareholder, Qorix leverages KPIT's software development expertise and ZF's proficiency in automotive systems.

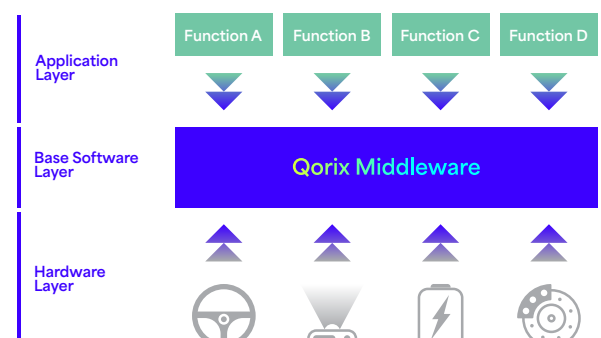
Addressing Key Software Challenges

Qorix addresses significant challenges in the current automotive software landscape. Automakers require more than just SoC-level components; they need comprehensive middleware solutions to drive their software-defined vehicle (SDV) programs. Without bundled middleware, OEMs face integration difficulties and delayed production. Middleware is essential for safe integration and quick time-to-market. Qorix provides these comprehensive solutions, enhanced with cloud-based tools.

Enhancing Safety and Connectivity

Qorix's middleware solutions significantly improve safety and connectivity in SDVs. Current AUTOSAR Adaptive solutions are based on service-oriented architecture, which reaches its limits when processing and merging large datasets. This limitation hampers the deterministic execution of critical functional safety tasks.

In response, Qorix developed the Qorix Performance stack, featuring mixed-mode applications that combine control systems, data pipelines, state-event-driven applications, and services. This innovation enables runtime orchestration for deterministic execution control. Consequently, customers can integrate hybrid functions with both service and signal-driven designs. This approach enhances safety and security of applications, providing a robust foundation for advanced automotive technologies.



Driving the Future: Scalable Middleware Solutions for Next-Gen Vehicles

Qorix offers cutting-edge and scalable middleware solutions that lay the foundation for the next generation of vehicles, driving significant improvements in quality and productivity. These solutions also facilitate a seamless transition to a robust central-compute architecture.



Qorix Classic: Standardized Software Architecture for Automotive Systems

Qorix Classic is a standardized software architecture specifically designed for embedded systems in the automotive industry. It offers a comprehensive and modular platform that standardizes and simplifies software development for Electronic Control Units (ECUs). Qorix Classic is primarily aimed at applications with stringent real-time requirements and high safety standards, such as engine control, braking systems, and airbag control units.



Qorix Adaptive: Advanced Software Architecture for Modern Automotive Applications

Qorix Adaptive builds upon the foundation of Qorix Classic, specifically designed for modern, complex automotive applications that require flexible and dynamic software architectures. Qorix Adaptive is tailored for applications with less stringent real-time requirements but demanding high computational power, flexibility, and connectivity. It is ideal for autonomous driving systems, V2X (Vehicle-to-Everything) communication, and advanced infotainment systems.



Qorix Performance: Optimized Middleware for Automotive Systems

Qorix Performance is a specialized software solution designed to enhance the overall vehicle performance and efficiency of embedded systems by optimizing system resources and efficiently managing communication. It offers easy scalability and adaptability to various vehicle platforms and requirements, ensuring seamless integration with both existing and new software architectures. Built-in security and fault tolerance features increase the reliability and safety of the systems. As a key component for modern vehicle systems, Qorix Performance provides high performance, flexibility, and security, enabling automotive manufacturers and suppliers to create more efficient and powerful systems.



Qorix Developer: Advanced Software Architecture for Modern Automotive Applications

Qorix Developer is a robust toolset designed to support all Qorix middleware products. It simplifies the development, testing, and deployment of automotive software, integrating seamlessly with Qorix Classic, Qorix Adaptive, and Qorix Performance.



Qorix Bootloader Secure and Scalable Bootloader for ECUs

Qorix Bootloader provides a generic, platform-based bootloader solution for automotive ECUs. It enables secure flashing and booting with software and hardware cryptography and supports OTA, FOTA, and SOTA – helping Tier-1s efficiently manage secure updates across vehicle platforms.

Our Industry Engagement

Qorix is an active member of key industry initiatives including the Eclipse Foundation's SDV Working Group, AUTOSAR, and the German Association of the Automotive Industry (VDA). We collaborate to define standards, accelerate innovation, and enable scalable software-defined vehicle architectures.



Contact Us

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