

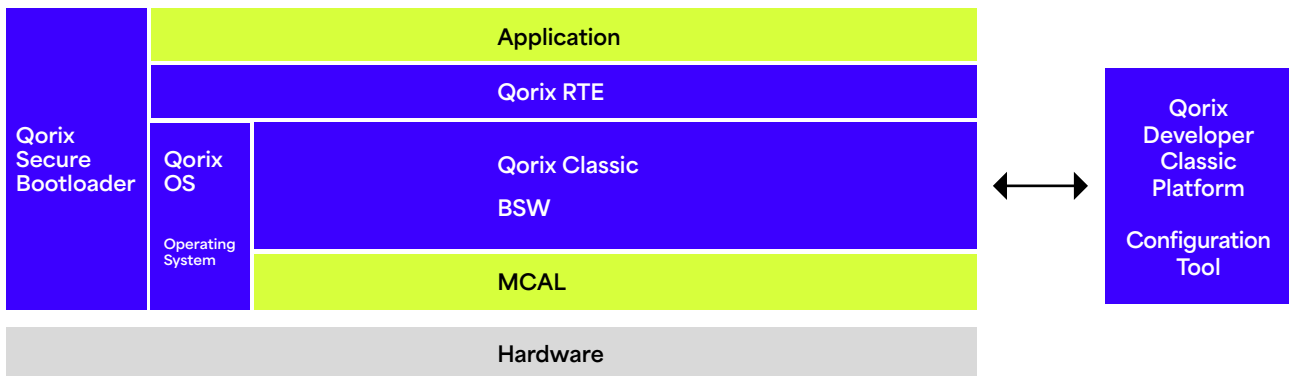
Building World-Class Automotive Middleware Stacks

▶▶ Qorix Classic



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 Classic: Our AUTOSAR Platform Architecture



Product Coverage

Services Coverage

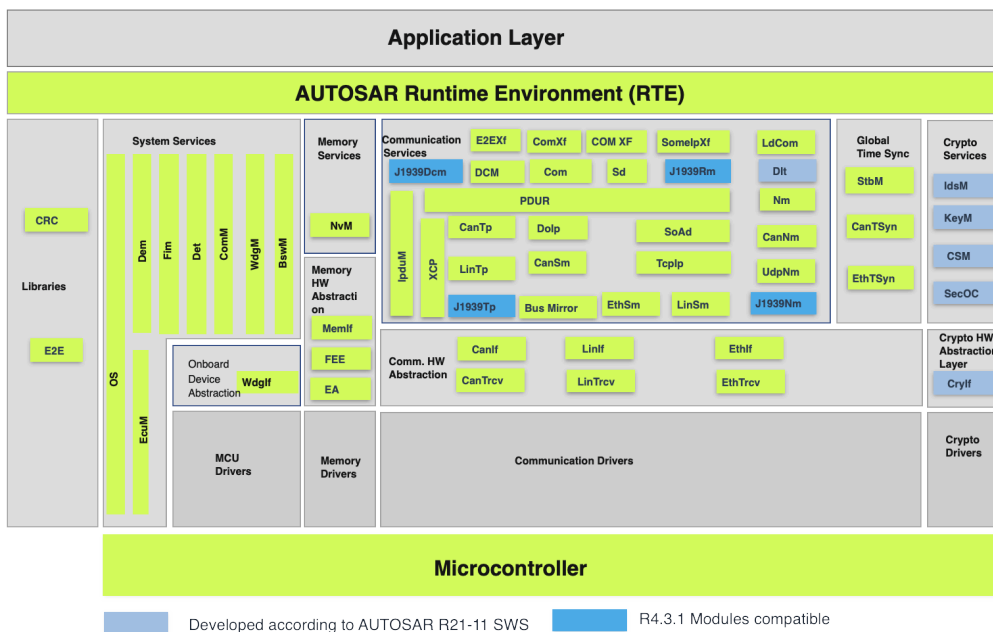
Production-ready ports on

Renesas | Qualcomm | Infineon | Microchip | TI | NXP | ST Micro | Broadcom | Xilinx | Cypress

Key Highlights



Qorix Classic Features



- ▶ Consists of basic software modules, runtime environment and operating system
- ▶ Implementation based on AUTOSAR version 20-11, 4.3.1 and 4.2.2
- ▶ Suitable for safety-related functions up to ASIL D
- ▶ Supports multicore processors
- ▶ Supports J1939 for commercial vehicles
- ▶ Efficient memory utilization
- ▶ Easy configuration using Qorix Developer
- ▶ Automatic parameterization and updating of the communication and diagnostic BSW based on commonly used data formats
- ▶ Consistency checks right after user input assists in configuring basic software
- ▶ Post-build feature; flexibility to update parameters after ECU delivery
- ▶ Simple and fast integration with application using SIP

Classic AUTOSAR Programs With Qorix Classic

Domain	Application
ADAS	<ul style="list-style-type: none"> Surround view camera Radar units - active safety Top view camera Rear view camera AD-ADAS PADAS
Powertrain/ Chassis	<ul style="list-style-type: none"> Transmission control module - hybrid Hybrid ECU - main controller Hybrid - motor controller Transmission control module Gear Shift ECU Electronis power steering Belt integrated starter generator Battery management system Hybrid ECU - BSW migration to AUTOSAR Braking ECU
Body	<ul style="list-style-type: none"> Seat massage Rear light ECU Body control unit PCU Chassis IO Cabin IO
Gateway	<ul style="list-style-type: none"> Power management and central gateway - I Power management and central gateway - II Power management and central gateway - III Body domain gateway controller
Instrument Cluster	<ul style="list-style-type: none"> Instrument cluster ECU
Others	<ul style="list-style-type: none"> Rear light ECU Front light ECU Tailgate control ECU Inverter ECU BMS DC OBC charger ECU 48v Inverter ECU Dual clutch transmission ECU Two wheeler fuel injection ECU TACM ECU

Qorix is a technology company that offers innovative and powerful middleware solutions to the mobility ecosystem, especially in the transformation towards software-defined vehicles (SDV). Qorix helps automotive manufacturers and suppliers to manage the ever-increasing complexity of software while maintaining complete control over their architecture. Qorix middleware ensures a global, secure and powerful software ecosystem that can be rapidly deployed in future vehicles. The product portfolio includes standard compliant AUTOSAR Classic and Adaptive solutions and QORIX's own "Performance" stack that is particularly designed for the requirements of future software-defined vehicles. Qorix employs over 250 employees worldwide, focusing on global software product delivery for OEM and Tier-1 programs. Established as joint venture of KPIT Technology Ltd. and ZF, with Qualcomm as a strategic shareholder, Qorix leverages KPIT's expertise in software development and ZF's proficiency in automotive systems to drive innovation in the automotive industry.

For further information, please visit www.qorix.ai