



Elektrobit

EB tresos & ECU solutions

Concepts, products, services, and tooling for real-time computing (RTC) systems



www.elektrobit.com

EB tresos

Everything you need to bring Classic AUTOSAR on the road

Develop your electronic control unit (ECU) with our scalable basic software, operating systems, and tailor-made tool environment based on Classic AUTOSAR



[Download the evaluation edition](#)

Benefits:



Reliability based on 35+ years of expertise in automotive basic software and tools development



Fast and secure support for broad areas of application and a reuse option



Reduces complexity by having a one-tool environment for configuration, validation, and code generation



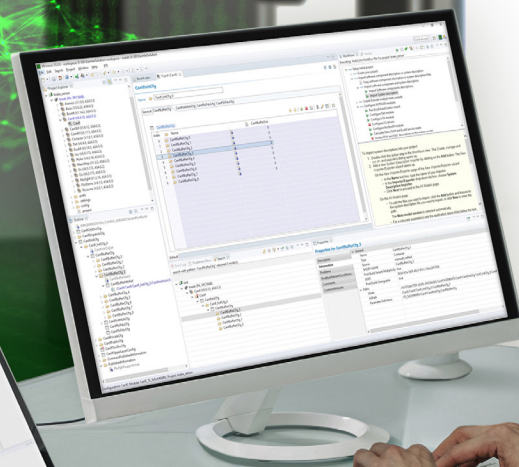
Safe and reliable mass-production-ready software, e.g. 100% code coverage



Dependable partner for developing, configuring, testing, and maintaining ECU software throughout the product life cycle.

Features:

- Industry-leading implementation of AUTOSAR-compliant basic software for automotive ECUs
- Functional safety up to ASIL D
- Fulfills OEM-specific requirements by customizing AUTOSAR software applicable to your ECU.



Manage the complexity of real-time computing (RTC) systems



Cross-OEM products

Efficient and scalable tool and target software products for ECU projects

EB tresos Studio

One configurator for every target software while supporting the latest AUTOSAR data model.

EB tresos AutoCore Generic

Hardware-independent basic software based on AUTOSAR R20-11 including Ethernet security, TLS, V2G, J1939, UDS, OBD, distributed BSW, and SomELP.

EB tresos Safety components

E2E, TimeE, run-time environment, OS, freedom from interference, and ASIL D & SIL 3 certification.

EB tresos AutoCore OS & EB tresos Embedded Hypervisor

Single-/multi-core OS and a safe virtualization solution to separately deploy OBD and non-OBD applications on the same ECU.

EB tresos Security components

Embedded crypto routines and hardware crypto support.

EB tresos OsekCore

OSEK-/VDX compliant stack

EB zentur

HSM firmware and Crypto Driver for hardware and secure hardware extension.

EB zoneo

Intelligent automotive-grade switch firmware.



OEM-specific products

Target software for implementing car manufacturers' software requirements beyond the AUTOSAR standard

EB tresos AutoCore OEM Extensions

OEM-specific bootloader and FOTA Handler allow ECU reprogramming and firmware for over-the-air update functionality. Blueprint for bootloader, FOTA, and application as an example for project setup.



Microcontroller-specific services

Modular integration and test strategy to reach quality goals

EB tresos Board Support Package

Porting of hardware-dependent Elektrobit products and integration of third-party modules (e.g. MCAL modules) into the EB tresos framework.

EB tresos SOP Qualification

Execution of both Elektrobit module and integration tests on a dedicated microcontroller (incl. MCAL modules).



Project-specific services

Solutions and services for Tier 1 suppliers to set up and run ECU projects for all leading car manufacturers

EB tresos Startup Package Application for OEM

Project integration package, which assures integration and pre-configuration considering project-specific input.

Engineering services

Development of Classic AUTOSAR SW-C application software, integration, validation & verification through a global team of Engineers ready to manage agile projects related to EB tresos, Classic AUTOSAR, and/or integration of third-party/OEM software components using a CI/CT framework.

Customer services

Requirement engineering, development of AUTOSAR architectural concept, development and integration of additional components, transfer legacy code, configuration of AUTOSAR modules to ECU-specific requirements, integrate & update ECU-specific functions (application), and design & develop tests.



Training, consulting & support

Experts you can trust when developing next-generation software

Variety of product and technology training sessions, lean and agile development consulting, on-demand hands-on workshops, and generic support for all products.



Contact us:

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We are software enthusiasts around the world



Germany · Austria · Finland · France · Romania

China · Japan · India · South Korea

North America

About Elektrobit

Elektrobit is an award-winning and visionary global vendor of embedded and connected software products and services for the automotive industry. A leader in automotive software with over 35 years of serving the industry, Elektrobit's software powers over five billion devices in more than 600 million vehicles and offers flexible, innovative solutions for car infrastructure software, connectivity & security, automated driving and related tools, and user experience. Elektrobit is a wholly-owned, independently-operated subsidiary of Continental.



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