

AURIX™ Drive Core AUTOSAR

A comprehensive software bundle designed to simplify and accelerate the development of AUTOSAR-based automotive applications for safety-critical features.

Version

1.0.0

Drive Core

Drive Core is a scalable software bundle portfolio for AURIX™, TRAVEO™ and PSOC™ that facilitates rapid start into Automotive software development.

AURIX™ Drive Core AUTOSAR

Drive Core AUTOSAR is a software bundle that accelerates and simplifies the development of ECU software projects (AUTOSAR-based) with a focus on streamlined development and improved reliability. The target applications include safety-critical functions such as Adaptive Cruise Control (ACC).

The software bundle includes Infineon's MCAL driver and Vector's MICROSAR Classic, a pre-integrated real-time capable base software stack, allowing developers to start developing applications instantly. On top of the stack, the bundle is equipped with an AUTOSAR ADAS demo application, simulating an advance cruise control (ACC) system. Instant tooling is guaranteed by TASKING's latest certified TC4x Tool Chain SmartCode and winIDEA.

In combination with Infineon's AURIX™ microcontroller, the bundle provides a productive software, reducing toolchain migration and development time for safety-critical domains.

Key features

- **Infineon's MCAL Driver:** Standardized interface to the AURIX microcontroller
- **MICROSAR Classic:** Pre-integrated real-time capable base software stack
- **TASKING's TC4x Tool Chain SmartCode:** Comprehensive development environment with demo application

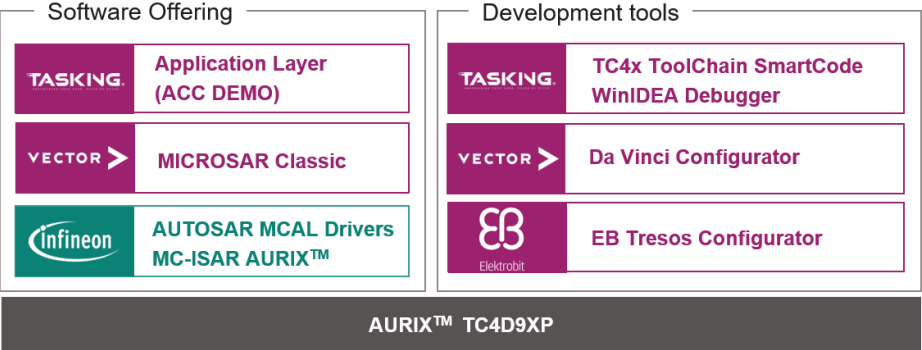
Key benefits

- **Streamlined Development:** Reduces development time and costs
- **Improved Reliability:** Ensures reliable functionality in safety-critical domains
- **Increased Productivity:** Provides a head start for developers



PRODUCT BRIEF

Block Diagram



Key components

Infineon:

- AUTOSAR MCAL Drivers (MC- ISAR AURIX for TC4x)

Elektrobit:

- EB Tresos

Tasking:

- TC4x Tool Chain SmartCode
- Compiler: Tasking SmartCode
- Debugger: Tasking winIDE
- Tasking PPU Runtime Library

Vector:

- BSW: Vector MICROSAR Classic
- Tooling: Vector DaVinci

Supported Devices

KIT_TC4D9XP_COM_TRB

License scheme

3 months evaluation



www.infineon.com

Published by
Infineon Technologies AG
Am Campeon 1-15, 85579 Neubiberg
Germany

© 2025 Infineon Technologies AG
All rights reserved.

Public

Date: 08/2025

Please note!

This Document is for information purposes only and any information given herein shall in no event be regarded as a warranty, guarantee or description of any functionality, conditions and/or quality of our products or any suitability for a particular purpose. With regard to the technical specifications of our products, we kindly ask you to refer to the relevant product data sheets provided by us. Our customers and their technical departments are required to evaluate the suitability of our products for the intended application.

We reserve the right to change this document and/or the information given herein at any time.

Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.