



PSOC™ 4 HV Drive Core Control

A comprehensive Software Bundle designed to simplify and accelerate software development for smart sensing, human machine interface and general purpose applications in the edge.

Version	1.0.0
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Drive Core

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

PSOC™ HV Drive Core Control

The PSOC™ Drive Core Control is a software bundle that accelerates and simplifies the development of edge controllers and small mechatronic electronic control units (ECUs) for automotive subsystems, with a focus on cost efficiency, reusability, and OEM independence. Target applications include automotive subsystems such as lighting, parking sensors, steering wheel detection and HVAC systems.

The software bundle includes tools and software components from Infineon and Vector, allowing developers to start developing applications instantly based on Vector's MICROSAR IO, a lightweight, secure, and efficient base layer. The incorporation of SOME/IP in this platform ensures a lightweight, scalable, and flexible communication protocol perfectly suited for automotive applications, facilitating seamless service-oriented communication and enhancing interoperability and performance.

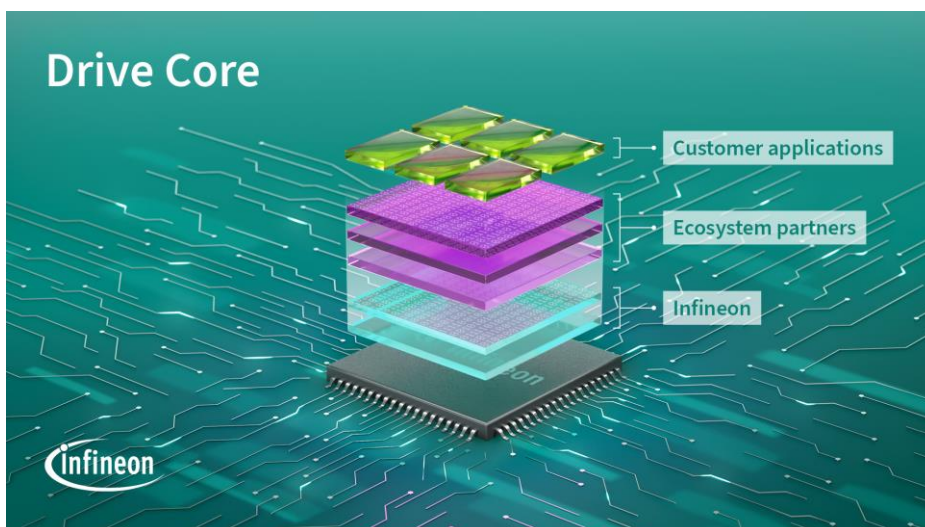
In combination with Infineon's PSOC™ 4 HV microcontroller, the bundle provides a resource-efficient solution, reducing the overall system cost and ensuring reliable functionality in mission-critical domains.

Key features

- **Lightweight and Efficient Software Platform:** MICROSAR IO for small mechatronic ECUs
- **Pre-integrated, qualified & certified drivers with Vector OS** for small edge MCUs
- **Safety-Critical ASIL-D Support:** Ensuring long-term reliability
- Easy-to-use tooling

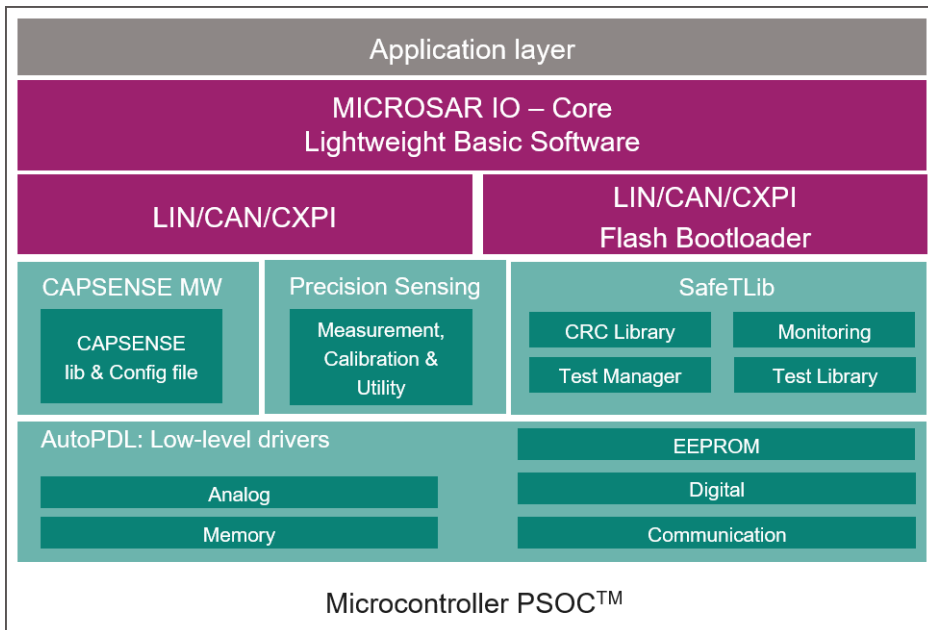
Key benefits

- **Streamlined Development Process:** Reduced development time and effort for small mechatronic ECUs
- **Improved Cost Efficiency:** reusability, and OEM independence
- **Enhanced Reliability and Safety:** Supporting safety-critical ASIL-D applications for long-term reliability



PRODUCT BRIEF

Block Diagram



Key components

- **Compiler:** IAR
- **Debugger:** IAR
- **Tooling:** Platform IO
- **OS:** Vector MICROSAR IO
- **HAL/Drivers:** AutoPDL

Supported Devices

PSOC™ 4 HV

License scheme

3 months evaluation

Premium Software (licensed)

- Productive Infineon code
- Productive Partner code (Vector)
- Customer code



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