PRODUCT BRIEF

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

Drive Core

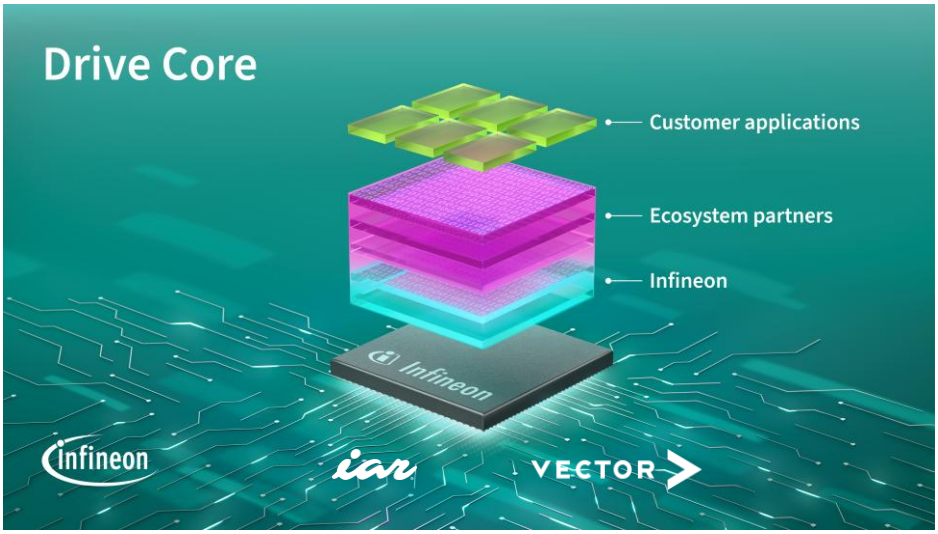
Drive Core is a scalable software bundle portfolio for AURIX™, TRAVEO™ and PSOC™ that facilitates rapid start into Automotive software development.

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 systems/ subsystems such as lighting, parking sensors, HMI, HVAC and BMS.

The software bundle includes tools and software components from Infineon, Vector and IAR. These tools allow developers to start developing applications instantly based on Vector's MICROSAR IO, a lightweight, secure, and efficient base layer. The 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.



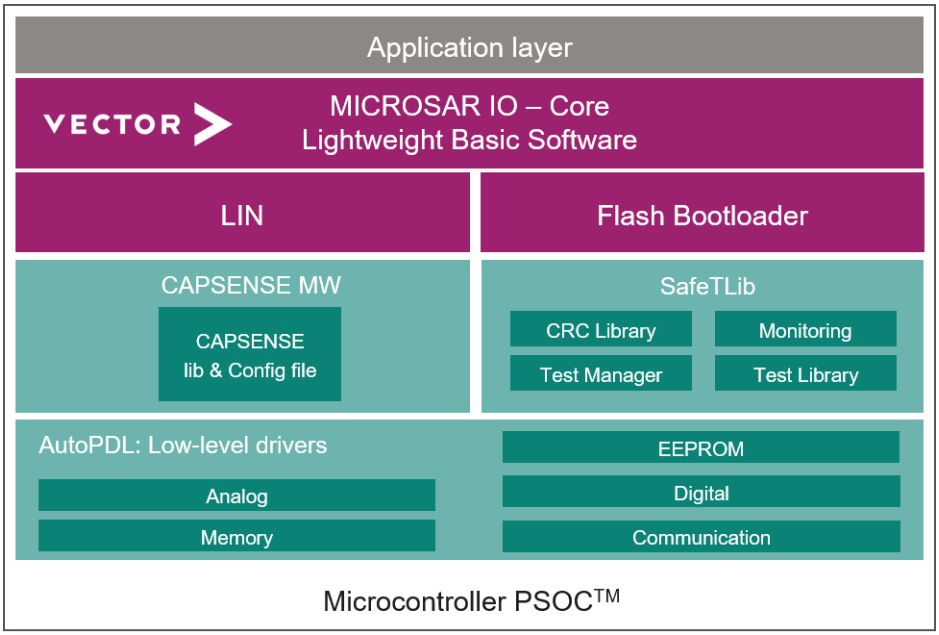
Key features

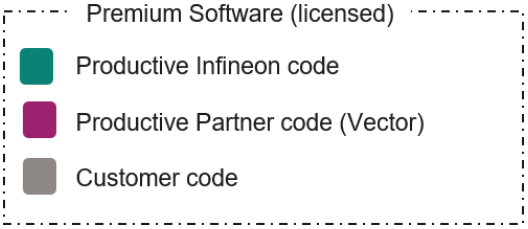
- **Lightweight and Efficient Software Platform:** MICROSAR IO for small mechatronic ECUs
- **Pre-integrated, qualified & certified drivers** with Vector OS
- **Safety-Critical ASIL-B Support**
- Easy-to-use tooling

Key benefits

- **Streamlined Development Process:** Reduced development time and effort for small mechatronic ECUs
- Improved Cost Efficiency, Reusability, and OEM independence
- Combining a lightweight software stack with a service -based protocol **reduces the overall system complexity**

Block Diagram





Key components

Infineon

- AutoPDL
- CAPSENSE™ middleware
- SafeTlib

IAR

- Compiler
- Debugger

Vector

- Operating System: Vector MICROSAR IO
- Tooling: Platform IO

Supported Devices

PSOC™ 4 HV

License scheme

3 months evaluation

www.infineon.com

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