



PSOC™ DRIVECORE Smart End Point

[Infineon, Vector, IAR] V1.0

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

PSOC™ DRIVECORE Smart End Point [Infineon, Vector, IAR] 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. MICROSAR IO 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 Base Layer: MICROSAR IO** for small mechatronic ECUs
- **Pre-integrated, qualified & certified drivers** with Vector's Software Stack
- **Safety-Critical ASIL-B Support**
- Easy-to-use tooling

Supported Devices:

KIT_PSOC4-HVMS-64K_LITE

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**

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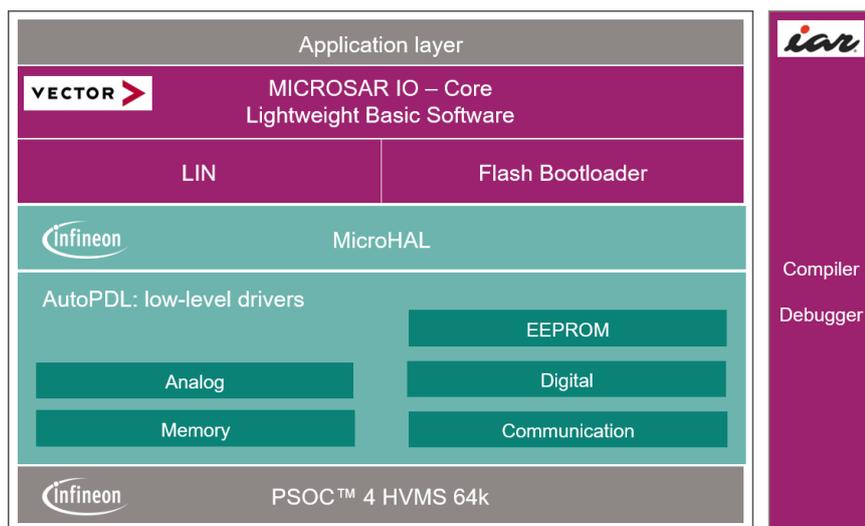
3 months free evaluation



Table Key Components

Partner	Category	Component	Version
	Drivers	MicroHAL AutoPDL	v1.4.0
	Software Base Layer	MICROSAR IO	R0.25.23
	Tooling	Platform IO	6.1.9
	Tooling	Compiler	v8.50

Block Diagram



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



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