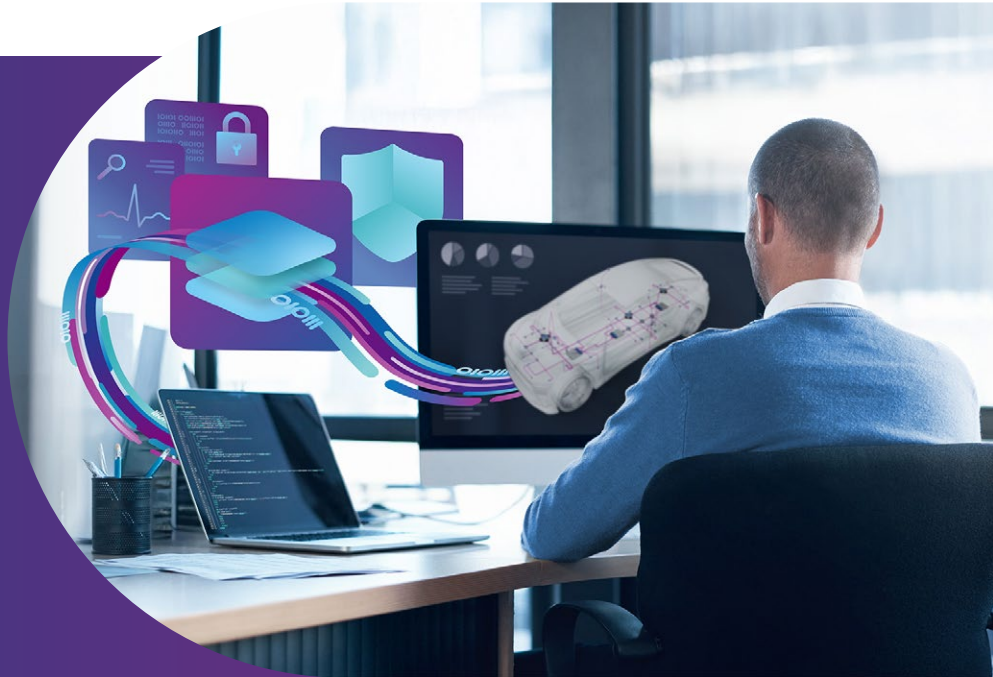**ETAS**

Vehicle Software Platform Suite

Boosting future vehicle platform performance

Drive innovation. Master complexity. Accelerate automotive software development.

The automotive industry is undergoing a major transformation as the shift to centralized and zonal E/E architectures becomes a reality. This presents a demanding software task: mastering growing complexity, integrating legacy systems, and adhering to safety and security standards. The **ETAS Vehicle Software Platform Suite** supports the design of this new software architecture.

Areas of application

– **SDV development:** Realizing the Software-Defined Vehicle (SDV) by providing tooling that enables developers to create the full spectrum of applications

– **Platform abstraction:** Abstractions of software from hardware and OS details, ensuring portability across vehicle stacks and generations via stable APIs

– **Cross-domain deployment:** Supporting comprehensive automotive architectures, enabling safe, efficient ASIL-B to -D app deployment across domains

– **Hard- and software decoupling:** A stable, open-source software platform supports true application portability and future-proof vehicles for upcoming innovations

Features

– **Development and configuration:** Easy-start software development kit (SDK) with advanced expert mode for full control

– **Platform stability:** Establishing a solid, safe, and robust foundation for microprocessor-based compute platforms

– **High standardization:** Defined acceleration of SDV application development with standardized signals and vehicle APIs

– **Domain specification:** Developing, validating, and deploying safe ADAS/AD applications in fast iterative cycles
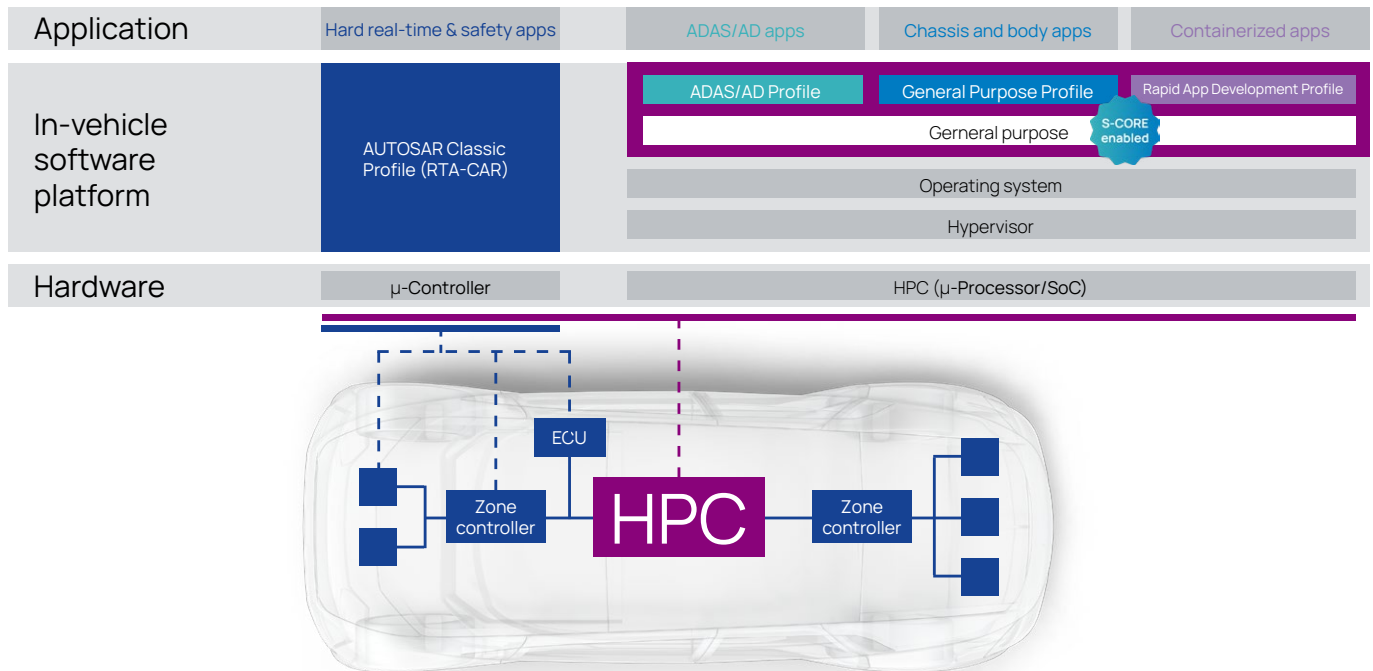
Benefits

– **Automotive safety:** Guarantees reliable operation with ASIL-B/D certifications and compliance to automotive safety standards

– **Cyber-secure:** Protects vehicle software with market-leading cybersecurity coverage for maximum data and system integrity

– **Rapid deployment:** Accelerates time-to-market with best-in-class performance and app start-up in under one minute using starter kits and GenAI-based frameworks

– **Vendor independence:** Achieved through open-source collaboration, tailored and flexible business models, and compliance with common industry standards

Building the foundation for future mobility

The ETAS Vehicle Software Platform Suite is designed to harness the full potential of this software-driven transformation. It provides a robust foundation for developing, deploying, and managing software across diverse hardware generations and vehicle lines – enabling scalable solutions that meet the demands of tomorrow's mobility.

Pre-integrated stack profiles with SDK support

Choose from our production-ready, pre-integrated stack profiles, each designed to meet specific automotive development needs. All profiles include production-ready pre-integrated stack modules, configuration and development tools, and further domain-specific tool support.

AUTOSAR Classic Profile:
Configure and generate AUTOSAR compliant ECU platform software

General Purpose Foundation:
Establish a solid, safe and robust foundation for a microprocessor-based compute platform

Rapid Application Development Profile:
Quickly develop and deploy new SDV applications using standardized signals and vehicle APIs

ADAS/AD Profile:
Develop, validate and deploy safe ADAS/AD applications in fast iterative development cycles

Full Stack Profile:
Complete solution with all stack modules for comprehensive automotive development

Individual modules and extensions

Enhance your SDV.OS stack with our modular offerings. Select individual modules or contact our sales team for custom solutions.

Communication Stack SOME/IP Protocol:
Robust, scalable communication infrastructure for automotive vehicle networks with service-oriented architecture

Diagnostics SOVD Standard:
Comprehensive diagnostics and health management for proactive vehicle maintenance and troubleshooting

Time Sensitive Networking (TSN) Standard:
Deterministic, real-time networking infrastructure for mission-critical automotive applications with guaranteed latency

Custom solutions tailored development:
Need something specific?
Our expert team creates custom modules and integrations tailored to your unique requirements.

Are you interested in ETAS products and solutions?
Please write to us at: **info@etas.com**

Further product information:
www.etas.com/vehicle-software-platform-suite