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Press Release

ETAS and Infineon collaborate to optimize security of next-generation AURIX™ microcontrollers with ESCRYPT CycurHSM

- Securing software-defined vehicles with best-in-class solutions
- Optimized security level, performance, and functionality
- Eliminates performance bottlenecks and supports post-quantum cryptography

Stuttgart and Munich, Germany, April 29, 2024 – As the automotive industry transitions to software-defined vehicles and new E/E architectures, the demand for high-performance hardware and robust cybersecurity solutions increases. To address this requirement, automotive software provider ETAS has integrated the ESCRYPT CycurHSM 3.x Automotive Security Software Stack into the AURIX™ TC4X Cybersecurity Real-time Module (CSRM) in collaboration with Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY). With this next-generation solution bundle, ETAS and Infineon strive to optimize security levels, performance, and functionality.

“One of the strengths of our AURIX offering is the deep level of integration of our partners’ software solutions,” said Thomas Schneid, Senior Director Software, Partnership and Ecosystem Management at Infineon Technologies. “We are therefore delighted to deepen our partnership with ETAS even further in order to advance the development of software-defined vehicles.”

“We are excited to open a new chapter in our long and successful collaboration with Infineon,” said Rohan Pandit, Product Manager Onboard Security at ETAS. “The integration of the latest version of ESCRYPT CycurHSM with the AURIX microcontroller family will enable software-defined vehicles to meet increasing performance requirements while providing robust security.”

The AURIX TC4x family is compliant with the latest ISO/SAE 21434 cybersecurity standard. The security concept eliminates performance bottlenecks and supports post-quantum cryptography. The controller family includes a Cybersecurity Real-time Module (CSRM) with dedicated memory and a Cybersecurity Satellite (CSS).

The CSS provides accelerators for cryptographic services that can be executed in parallel and significantly improve throughput in conjunction with ESCRYPT CycurHSM 3.x. In addition, the solution supports the configuration of multiple virtual instances so that several applications can be run in parallel. ESCRYPT CycurHSM 3.x uses this feature to enable flexible boot-up sequences and independent dynamic updates for each virtual instance. Access control can be configured granular and individual ASIL levels can be assigned to each virtual instance, enabling different security applications.

The first device of the new Infineon TC4X series is already secured with ESCRYPT CycurHSM 3.x. The hardware compatibility of CSRM and CSS enables a smooth porting of ESCRYPT CycurHSM 3.x to other derivatives of the TC4X family, depending on market requirements and device availability.

About ETAS

Founded in 1994, ETAS GmbH is a wholly owned subsidiary of Robert Bosch GmbH, represented in twelve countries in Europe, North and South America, and Asia. ETAS' portfolio includes vehicle basic software, middleware, development tools, cloud-based operations services, cybersecurity solutions, and end-to-end engineering and consulting services for the realization of software-defined vehicles. Our product solutions and services enable vehicle manufacturers and suppliers to develop, operate, and secure differentiating vehicle software with increased efficiency.

Further information is available at www.etas.com

About Infineon

Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The company has around 58,600 employees worldwide and generated revenue of about €16.3 billion in the 2023 fiscal year (ending September 30). Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the OTCQX International over-the-counter market (ticker symbol: IFNNY).

Further information is available at www.infineon.com

Image:



(Topic image: Next generation HSM)

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