



Elektrobit



Elektrobit cybersecurity for vehicles

Driving towards a secure future.

Cybersecurity in vehicles is essential for protecting people, the operational environment, and complying with regulations. It is a non-negotiable necessity reducing risks and ensuring business continuity.

Elektrobit achieves this through a holistic approach, covering all layers from individual components to cloud services; ensuring system integrity and compliance with legal standards.

Our solutions include embedded cryptography, secure communication, and comprehensive cybersecurity maintenance, supporting regulations like UN R155 and ISO/SAE 21434:2021 to maintain high standards throughout the vehicle's life cycle.



A comprehensive product and solution portfolio

Elektrobit provides customizable, end-to-end security solutions for connected vehicles, based on Linux, AUTOSAR and specific customer requirements.



Cybersecurity maintenance

Continuous monitoring, advisories, and updates ensure the security and availability of Elektrobit's software stack throughout its lifecycle.



Engineering services

Secure design, proactive vulnerability management, and long-term cybersecurity maintenance to meet with SDV cybersecurity demands.



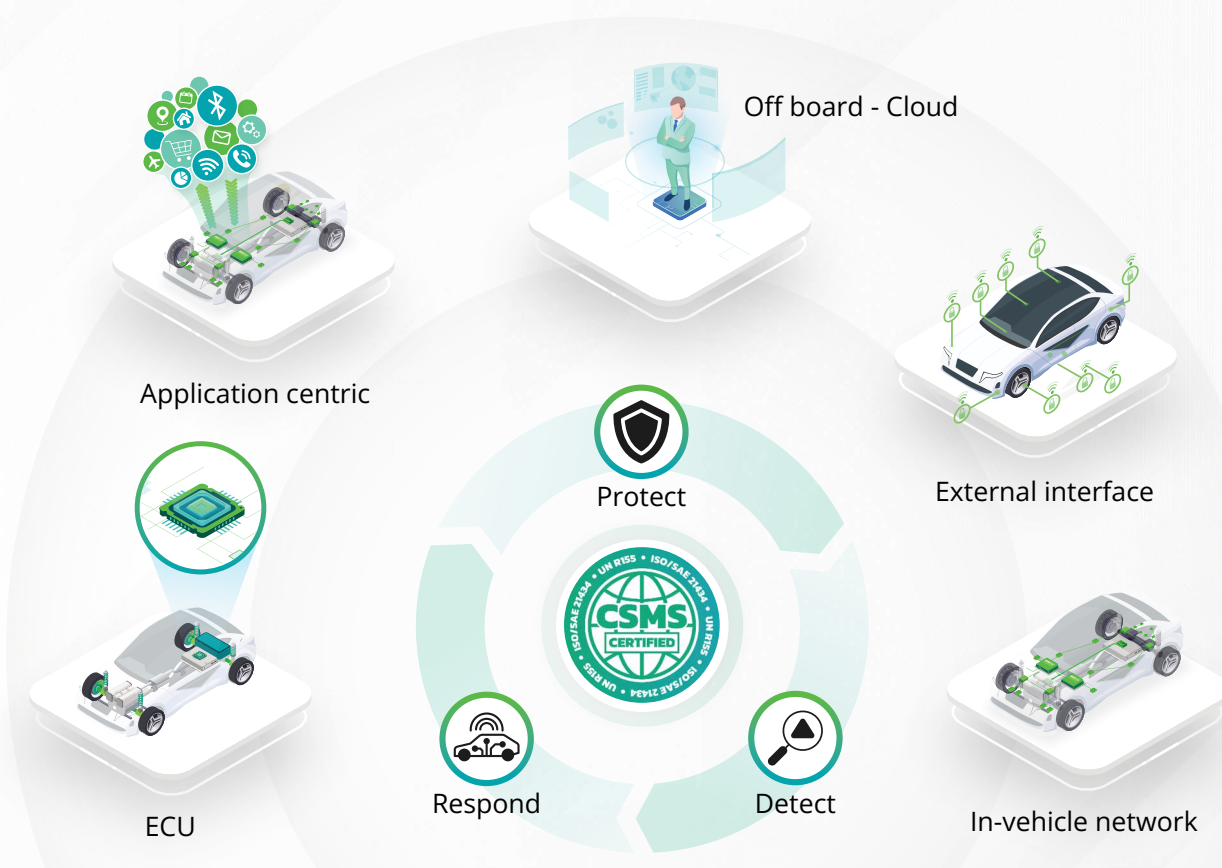
Industry-leading expertise and reliability

600
million vehicles
on the road

35
years in the
automotive business

20
years of cybersecurity
domain excellence

Continuous protection of the SDV



Defense in depth: Our approach to continuous protection encompasses all aspects of the vehicle environment, both internal and external. This includes individual components and ECUs, internal bus systems, along with external interfaces and protocols (such as WLAN). We implement end-to-end encryption and safeguard all relevant services. This strategy not only maintains system integrity and prevents misuse, but also complies with the growing legal requirements for data privacy, data protection, and information security.

Elektrobit cybersecurity feature mapping

	HPC	RTC	Network
Access control and authorization	✓		
Cryptography	✓	✓	
Firewall and intrusion detection*	✓	✓	✓
Recovery services	✓		
Secure boot	✓	✓	✓
Secure communication	✓	✓	✓
Secure diagnostics	✓	✓	
Secure updates	✓	✓	✓
Secure storage	✓	✓	
Separation and isolation	✓	✓	
Cybersecurity management system	✓	✓	✓
Cybersecurity maintenance	✓	✓	✓

HPC offering includes:

- EB corbos Linux
- EB corbos AdaptiveCore

RTC offering includes:

- EB tresos AutoCore
- EB tresos FOTA Handler
- EB tresos Bootloader
- EB tresos OS
- EB tresos Embedded Hypervisor
- EB zentur HSM

Network offering includes:

- EB zoneo SwitchCore
- EB zoneo SwitchCore Shield
- EB zoneo VSwitch
- EB zoneo GatewayCore

*Intrusion detection and prevention system with PlaxidityX

Contact us:

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