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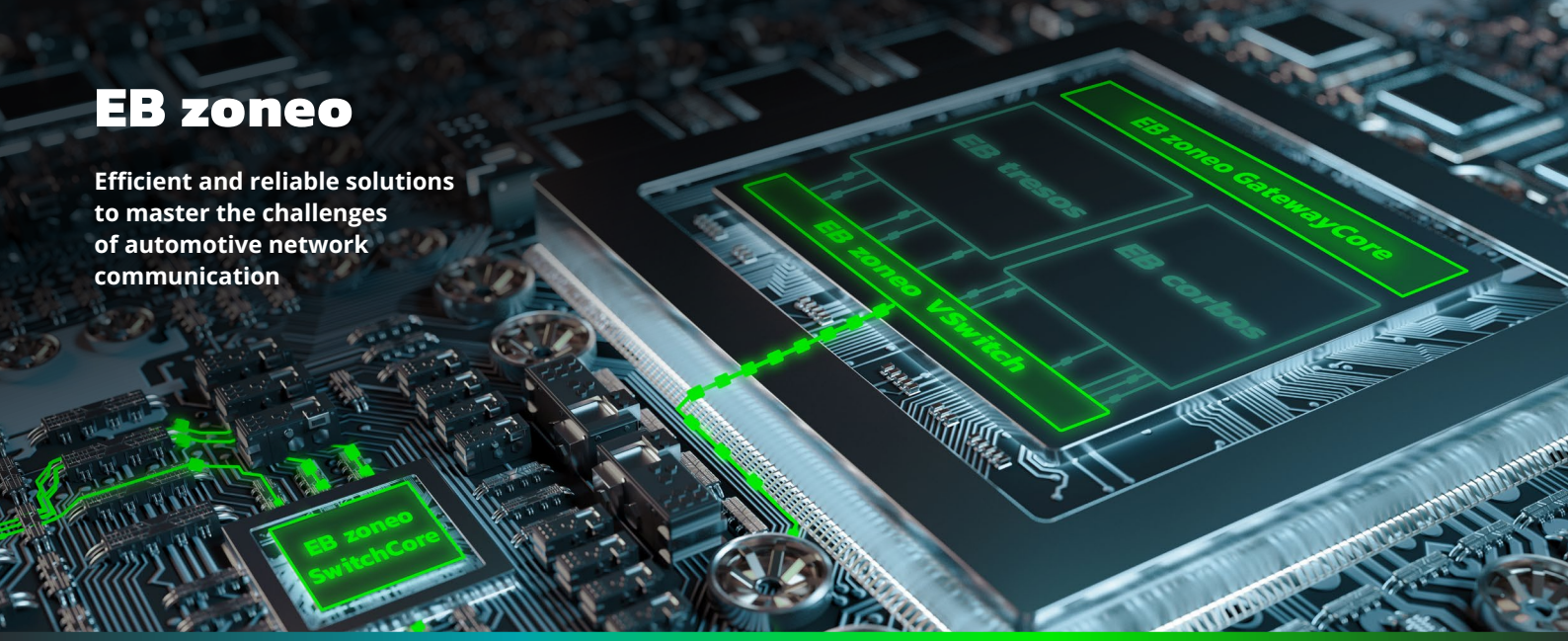
Making automotive networks fast, flexible, and secure



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EB zoneo

Efficient and reliable solutions
to master the challenges
of automotive network
communication



Highlights

EB zoneo SwitchCore

- Intelligent automotive-grade switch firmware to handle the ever-increasing network functions.
- Perfectly handles complex network configuration, routing, QoS, firewall, device authentication, and time synchronization.

EB zoneo SwitchCore Shield inherits all features supported by EB zoneo SwitchCore with extra cybersecurity protection from Argus Ethernet IDPS, a solution which helps to perform deep packet inspection of the Ethernet frames up to the application layer.

EB zoneo GatewayCore

- EB zoneo GatewayCore introduces a suite of hardware-dependent modules crafted to configure the hardware accelerators and smoothly combine with AUTOSAR Classic Platform.
- Provides hardware-specific adaptation and acceleration for CAN and Ethernet communication which leads to a significant reduction of latency and CPU load.
- A special configuration assistant helps to configure highly-complex hardware filters and tables to reduce the integration time and efforts.

EB zoneo VSwitch

- Virtualization module that mimics switch functionalities to provide fast and reliable communication between virtual machines and Ethernet networks.
- Provides communication between VMs within the ECUs or HPC and between VMs and the Ethernet network.
- Supports VMs using Classic AUTOSAR and VMs using Adaptive AUTOSAR (Linux).

Benefits

EB zoneo SwitchCore

- **More computational resources** – High-level network functions are directly executed on the switches.
- **Efficient implementation** – Our software implementation is tightly coupled with hardware features.
- **Early detection and prevention of unauthorized traffic** – Executes cybersecurity protection directly on the switch hardware, thus leading to an early and extensive detection of cyberthreats.

EB zoneo GatewayCore

- **Optimized for specific hardware** – Utilizes distinct hardware accelerators to achieve peak performance tailored to specific use cases.
- **Flexible data routing** – Supports routing within hardware buses as well as multicasting and multiplexing between modules and protocols.
- **Easy configuration** – Simplifies complex routing scenarios quickly and effortlessly with configuration assistant in the standard AUTOSAR environment.

EB zoneo VSwitch

- **Versatile platforms** – Simultaneously supports various platforms (Classic AUTOSAR, Linux, QNX) and different hardware interfaces such as Ethernet and PCIe.
- **Fast performance** – Utilizes DMA and zero-copy technique to provide fastest access to Ethernet frames for all VMs deployed inside of the system.
- **Safe communication** – Provides for VM communication freedom from interference, protection against read/write access and suppression.

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