



Elektrobit

# EB zentur

Automotive embedded security for your software infrastructure



[www.elektrobit.com](http://www.elektrobit.com)



## EB zentur

... is a **full and flexible HSM firmware stack** that covers the HSM needs of **various OEMs** and supports the **leading microcontroller platforms**. It is an **out-of-the-box solution** working instantly with Elektrobit's EB tresos and other Classic AUTOSAR-compliant stacks and ...

... **makes your software infrastructure secure.**

## Product components

### EB zentur HSM Firmware

Elektrobit's complete firmware software stack for a hardware security module (HSM) implements security algorithms utilizing hardware acceleration mechanisms.

#### Supported standards and key features:

- SHE/SHE+ and EVITA light/medium/full
- Certificate management
- HSM firmware update
- Extended secure boot
- Symmetric keys supported
- Asymmetric cryptography support

### EB zentur Crypto Driver Hardware

The driver implements the interface into hardware acceleration modules HSM. It abstracts the cryptographic calculation to the upper software layers and allows seamless integration into EB tresos AutoCore.

#### Features:

- Implementation in accordance with AUTOSAR 4.3
- Communication with HSM firmware
- Configurable with EB tresos Studio
- Available for third party HSM implementations

### EB zentur CryShe

Driver software for a secure hardware extension (SHE) module. It abstracts the cryptographic calculation to the upper software layers and allows seamless integration into EB tresos AutoCore.

#### Features:

- Implementation to support AUTOSAR 4.x
- Utilize a SHE hardware module
- Support of HIS-defined APIs
- Configurable with EB tresos Studio



# Your benefits in using EB zentur

## Secure your system with a Hardware Trust Anchor



- Use EB zentur HSM as **hardware trust anchor** to make your system secure.
- Secure software initiation and ECU through **hardware-accelerated cryptographic calculations** with HSM and **secure key storage**.
- Use EB zentur HSM functions as entry point of the **Secure Boot** in combination with EB tresos Bootloader.

## Meet OEM- and Tier 1- specific security requirements

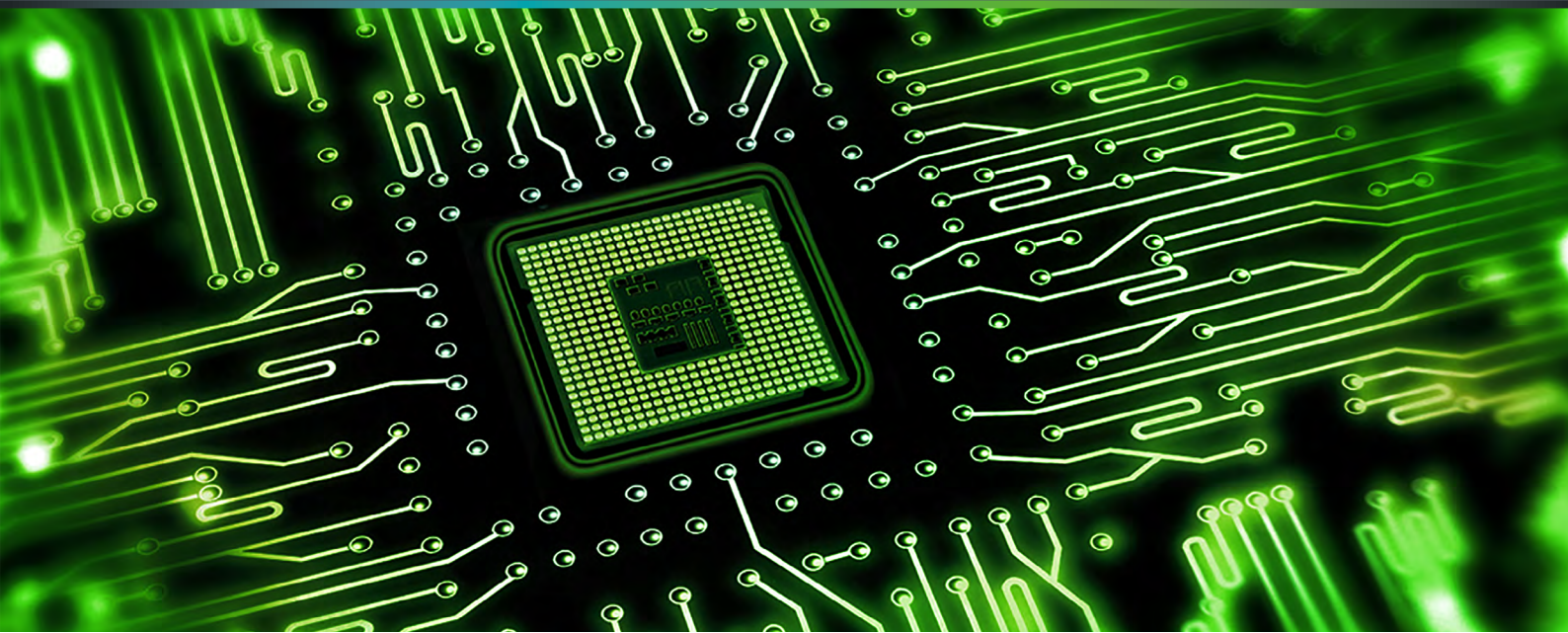


- Benefit from an HSM stack that **covers OEM-specific requirements** (e.g. Volkswagen Group).
- Use a **platform-independent HSM solution** that supports a variety of  $\mu$ C platforms.

## Protect in-vehicle communication



- Protect communication to other ECUs by **calculation of Message Authentication Code (MAC)** in combination with EB tresos AutoCore SecOC.



## Supported platforms

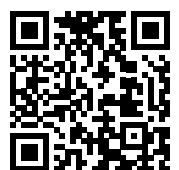
### Infineon 32-bit TriCore™ AURIX™

TC23x | TC27x | TC29x | TC33x  
TC36x | TC37x | TC38x | TC39x

### ST Microelectronics

SPC58 Chorus C Line  
SPC58 Chorus G Line  
SPC58 Chorus H Line

For the latest list of  
supported platforms  
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# We are software enthusiasts around the world:



## About Elektrobit

Elektrobit is an award-winning and visionary global supplier of embedded and connected software products and services for the automotive industry.

A leader in automotive software with over 30 years serving the industry, Elektrobit's software powers over one billion devices in more than 100 million vehicles and offers flexible, innovative solutions for car infrastructure software, connectivity & security, automated driving and related tools, and user experience.

Elektrobit is a wholly-owned, independently-operated subsidiary of Continental.



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