



# Solutions

### Real-time basic software

- Partitioned Runtime Environment (safety/non-safety)
- Multi-core OS (safety/non-safety)
- Distributed basic software

• Post-build loadable (updateable) and selectable (multiple variants in one ECU)

#### Open tooling environment

- Template integration providing AUTOSAR architecture proposal
- · Extensive partner ecosystem with OEMs, tool vendors, and semiconductor manufacturers
- Open tooling environment with EB tresos Studio
- Virtualization capabilities for deeply embedded systems

| SO | utions |
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## Support for modern development tools

| tool | <ul> <li>Tool supporting collaborative workflows<br/>("splittable configuration")</li> <li>Tool with command-line features</li> <li>Flexible tool environment</li> </ul> |
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|      | Individual project support   |

Worldwide engineering expertise for fast localized support

## **Solutions**

| <ul> <li>Highest safety levels</li> <li>AUTOSAR Basic Software from QM up to ASIL D for single- and multi-core</li> <li>Mix of safety and QM software possible</li> <li>Safety OS provides read and execution protection</li> <li>Availability of safety functions and mechanisms independent from QM software</li> <li>Fulfill safety requirement "Availability" (e.g. electrical power steering)</li> <li>Key functions stay intact even if QM parts fail</li> </ul> |
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| <ul> <li>Enhanced security measures</li> <li>Penetration-tested and vulnerability-checked basic software (in-house cooperation with ARGUS)</li> <li>Security extension for communication (IDS, IPSec, TLS,)</li> <li>Seamless integration of EB zentur (EB's HSM firmware product)</li> </ul>  |