AUTOSAR enables cost-effective software development by removing the need for customer drivers. This makes the MCU easier to use, saves development and integration time, increases quality and reduces overall cost.

For a select number of MPC56xx and MPC55xx families, we offer an optimized implementation of the AUTOSAR OS. Depending on the MCU type, OS scalability classes 1–4 are supported.

AUTOSAR-compliant software for automotive MCUs

AUTOSAR Software

We offer AUTOSAR software for many S12 16-bit and 32-bit MCU families. Developing low-level software for our MCUs allows software optimization for specific families or even derivatives.

AUTOMOTIVE APPLICATIONS

- Body
- Chassis and safety
- Driver assistance
- Powertrain

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AUTOSAR-COMPLIANT MCAL SOFTWARE FEATURES

- High-quality, efficient, reliable and scalable AUTOSAR-compliant set of MCU abstraction layer (MCAL) drivers
- Supports pre-compile and post-build loadable configuration
- Developed in an automotive SPICE level 3 (HIS scope) process framework
- Supports:
  - AUTOSAR 3.0/3.1: S12X, S12P/G, MPC56xx
  - AUTOSAR 4.0: MPC56xx (select families), MPC57xx

AUTOSAR-COMPLIANT OPERATING SYSTEM FEATURES

- High-quality, efficient, reliable and scalable AUTOSAR-compliant operating system
- Developed in an automotive SPICE level 3 (HIS scope) process framework
- Supports AUTOSAR scalability classes 1, 2, 3 and 4, in line with available hardware resources
- Supports:
  - AUTOSAR 3.0/3.1: S12X, S12P/G, MPC56xx
  - AUTOSAR 4.0: MPC56xx (select families), MPC57xx

- Integrated with EB tresos® Studio AUTOSAR configuration tool from Elektrobit
- Supports industry standard compilers:
  - Green Hills
  - Wind River
  - CodeWarrior
**AUTOSAR-COMPLIANT OPERATING SYSTEM FEATURES**
- High-quality, efficient, reliable and scalable AUTOSAR-compliant operating system
- Developed in an automotive SPICE level 3 (HIS scope) process framework
- Supports AUTOSAR scalability classes 1, 2, 3 and 4, in line with available hardware resources
- Supports:
  - AUTOSAR 3.0 /3.1: S12X, S12P/G, MPC56xx
  - AUTOSAR 4.0: MPC56xx (select families), MPC57xx
- Takes full advantage of processor capabilities
- Integrated with EB tresos Studio AUTOSAR configuration tool from Elektrobit
- Supports industry standard compilers:
  - Green Hills
  - Wind River
  - CodeWarrior

**PRODUCTION SOFTWARE**
All AUTOSAR software products are intended for production use. To support individual customer schedules, frozen branch support as well as dedicated customer compiler tests are offered. The software can be licensed in various forms and with various support options to fit the full variety of automotive ECU programs.

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**AUTOSAR MCAL PACKAGE**

- Memory Hardware Abstraction
  - Flash EEPROM Emulation
- I/O Hardware Abstraction (example code)

**AUTOSAR SOFTWARE**

**AUTOSAR MCAL AVAILABILITY MATRIX**

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**www.nxp.com/AUTOSAR**


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