



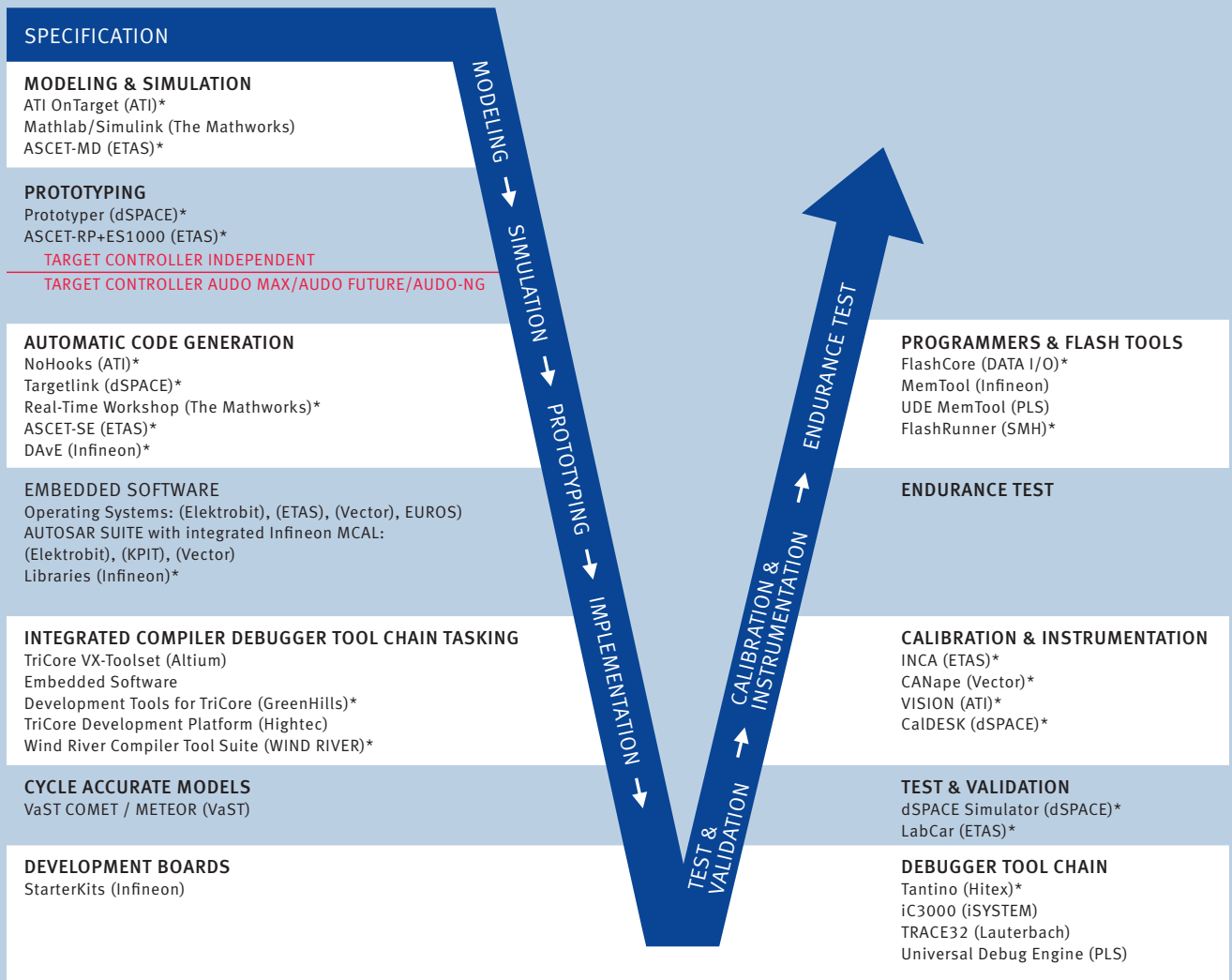
AUDO MAX/AUDO FUTURE/AUDO-NG Family

Highly Integrated 32-bit Microcontroller for Automotive Applications

Development Support

The TriCore™ architecture is well-supported by a robust and comprehensive suite of development tools and services such as integrated compiler and debugger tool chains, real-time operating systems, simulators, C-models, programming systems, evaluation boards, training, and consulting services.

Software Development along the V Cycle



* AUDIO MAX/AUDO FUTURE device support status on request

Infineon and AUTOSAR

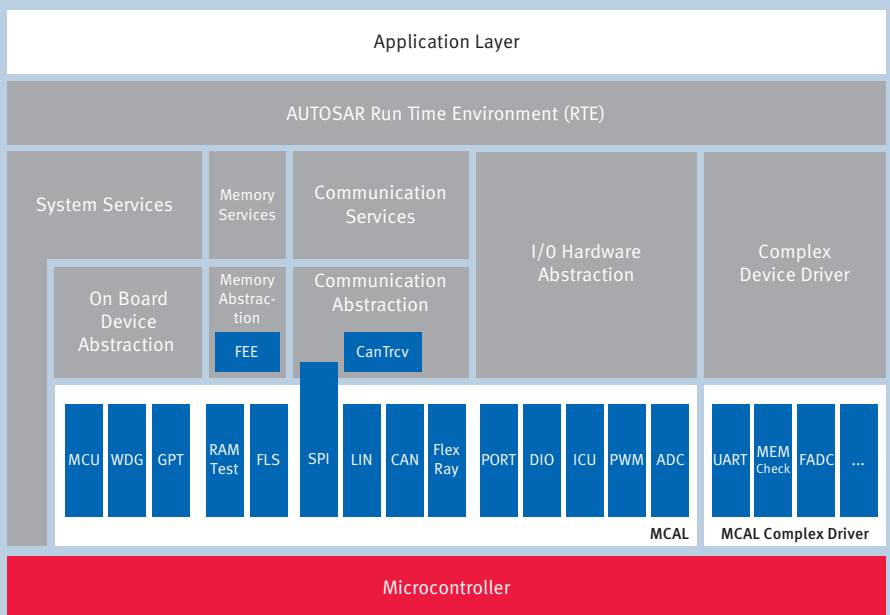
Infineon Technologies has contributed to the AUTOSAR standard since 2004 and provides appropriate AUTOSAR solutions for its microcontroller portfolio. MC-ISAR AUTOSAR drivers are based on the technology verified by the AUTOSAR validator project.

The driver portfolio comprises components of the Microcontroller Abstraction Layer (MCAL), CAN transceiver and Flash EEPROM Emulation (FEE) within one configuration tool for quickly starting up an application development project.

The close cooperation of hardware and software development enables the generation of efficient and optimized drivers. Within AUTOSAR, the exploitation of microcontroller resources is supported via vendor-specific parameters to fully utilize the available hardware resources. A CMM-L3 certified software development process is applied for the MC-ISAR driver portfolio. This is the basic for the complete AUTOSAR Basic Software (BSW) available via software partners.



Infineon MC-ISAR Drivers: Product Overview



- Supported AUTOSAR releases and devices
 - V2.0: AUDDO NG (TC1796, TC1766)
 - V2.1, V3.0: XC2000. AUDDO FUTURE (TC1797, TC1767), AUDDO S
 - V3.0 AUDDO MAX
- Complex driver for non standardized modules (for TriCore™)
- CMM L3 process
- AUTOSAR BSW Suite via partners
- Delivery packages includes: source code, user manual, Tressos configuration tool

MC-ISAR: MicroController – Infineon Software ARchitecture
 MC-ISAR: MCU, WDG, GPT, SPI, PORT, DIO, ICU, PWM, ADC
 MC-ISAR COM: CAN, CanTrcv, LIN, FlexRay
 MC-ISAR MEM: FLASH, FEE, RAM Test
 MC-ISAR MCAL CD: UART, MEMCheck, FADC, etc. for TriCore™

- Infineon MC-ISAR driver (MicroController Infineon Software ARchitecture)
- Enabled via partners

Access to the microcontroller hardware is routed through the Microcontroller Abstraction Layer.

The MCAL layer ensures a standard interface and controls the microcontroller peripherals. Standardized components are

- Basic AUTOSAR package MC-ISAR: MCU (Microcontroller Unit) driver, WDG (Watchdog) driver, GPT (General-Purpose Timer) driver, SPI driver, PORT driver, DIO driver, ICU (Input Capture Unit) driver, PWM (Pulse-Width Modulation) driver, ADC (Analog Digital Converter) driver
- MC-ISAR COM package: CAN driver, CanTrcv CAN transceiver, LIN driver, FlexRay driver
- MC-ISAR MEM package: FLASH driver, FEE driver (Flash EEPROM Emulation), RAMTest driver
- MC-ISAR MCAL CD: (MCAL Complex Driver) package UART driver, MEMCeck driver, FADC (Fast Analog Digital Converter) driver, additional driver for non-standardized modules are available.

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