PRODUCT BRIEF

MOTIX™ Software

Accelerate your innovation with Infineon's software stack for embedded automotive motor control solutions.

With the MOTIX™ software stack we offer a platform of building blocks and tools, instrumental to accelerate and scale automotive motor control system development. The platform comprises advanced motor control software, MOTIX™ MCU peripheral and device drivers and AUTOSAR conform software designed to meet most stringent system safety requirements.

MOTIX™ software architecture and APIs are designed to maximize scalability, re-use and application of features across Infineon device families. Our tools in particular support you in device configuration, evaluation and parametrization of MOTIX™ motor control software to accelerate your success.

Target applications

- Pumps, fans, compressors and valves of thermal management systems
- Braking, EPS, Door, Closure, Seat comfort

MOTIX™ Software building blocks

Motor Control Library
- High scalability and re-use with modular and layered architecture, advanced algorithms, supports parametrization, diagnosis and tracing
- Optimized for single-leg-shunt FOC solutions
- MOTIX™ Solution Designer GUI tool support for software parametrization, runtime evaluation, monitoring and tracing
- Automotive SPICE compliant

AUTOSAR Complex Device Driver
- AUTOSAR compliant software, API supporting device configuration and complex application use cases incl. safety mechanisms
- Available for selected MOTIX™ Driver and EiceDRIVER™ ASIL D hardware
- Productive software packs for AURIX™, compliant with Automotive SPICE and ISO26262 (SEooC) and MCU agnostic reference and evaluation packs including demo software
- EB tresos Studio support

Device Driver
- API for device configuration and core runtime functionality via SPI
- MCU agnostic software, supports AUTOSAR MCAL
- Device Driver implementation and application examples on AURIX™ and TRAVEO™ with MOTIX™ or EiceDRIVER™ Evaluation Boards
- Available for all MOTIX™ Driver, SBC and Bridge devices and EiceDRIVER™ for evaluation

MOTIX™ MCU Peripheral Driver Library (PDL)
- Library of MOTIX™ MCU peripheral drivers
- Automotive SPICE compliant
- Infineon Device Configurator GUI tool support for initialization and configuration
- Deployed as part of MOTIX™ MCU SDK including utilities, code examples and tool support

Key features

- High scalability and re-use-ability across devices by unique architecture and platform approach
- Right fit low-level software and motor control middleware for industry leading hardware from Infineon
- Unit and integration tested software building blocks incl. quality reports and safety documentation for eased system integration according to industry standards up to ASIL D

Key benefits

- Accelerates innovation from hardware feature evaluation to value added application software development
- One-stop-shop software/hardware including MOTIX™, EiceDRIVER™ and AURIX™ core system components
- Premium support partner MOTEON

PRODUCT BRIEF

MOTEON motor control design-house

MOTEON is an Infineon Preferred Design House (PDH) and your global design house partner for motor control software and system solutions. End-to-end solutions and services for auxiliary motor control applications, from software and engineering to testing and tools include:



- Motor analysis, software parametrization and tuning services
- MOTIX™ Motor Control Library, LLD/ PDL resell and customization
- Application software development
- Mechatronic simulation and development
- Testing as a service
- Validation and data tracing tool
- Test automatization with mobile motor test bench (mMTB)

For more information, visit www.moteon.com or email info@moteon.com.

Availability

We offer various license models from free evaluation to payable productive use including access to maintenance releases. For more information, please contact your local Infineon sales partner and check out Infineon Developer Center (IDC), www.infineon.com/idc.

Software	Description	License models
SDK	Software development kit for MOTIX™ MCUs incl. PDL, example code and tool support, CMSIS-Pack, IDE support from KEIL µVision and IAR Embedded Workbench	Free evaluation Payable
Motor Control Library	Library for FOC motor control solutions, supports MOTIX™ MCU, AURIX™ and TRAVEO™	Free evaluation Payable
AUTOSAR Complex Device Driver	AUTOSAR compliant software, API supporting device configuration and complex application use cases incl. safety mechanisms	Free evaluation Payable
Device Driver	API for device configuration and core runtime functionality via SPI MCU agnostic software, supports AUTOSAR MCAL	Free evaluation
Application examples, Tools & Utilities	Motor control application examples for FOC, BEMF zero crossing, OptiMOS™ MOSFET pre-configured code, etc. PC tools for device initialization, configuration, software parametrization, signal monitoring & tracing, memory analytics, etc.	Free evaluation

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