



S32K39/37/36 Microcontrollers for Electrification Applications

S32K39-37-36

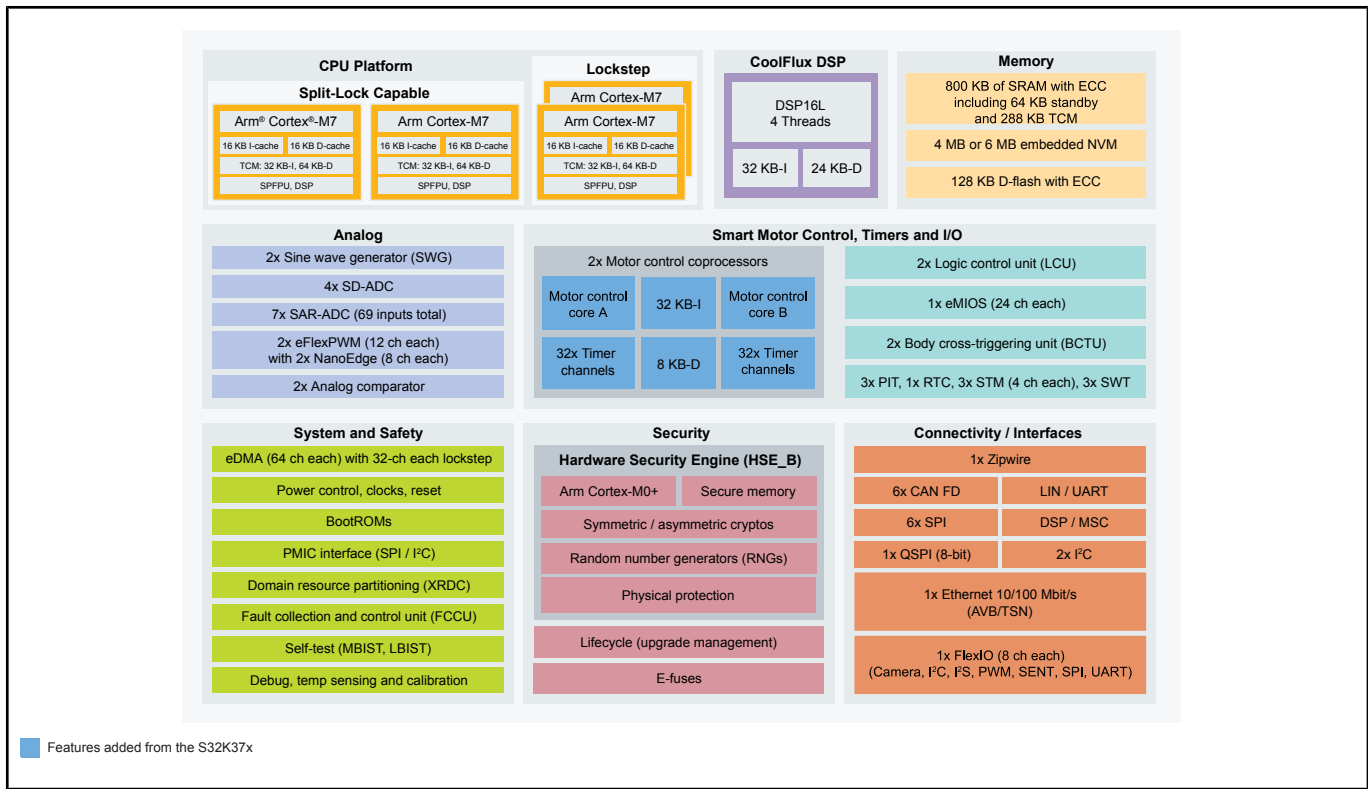
Last Updated: Jun 21, 2024

S32K39-37-36 is a purpose-built device addressing the new electric vehicle (EV) needs with a compelling combination of performance, integration, networking, security and functional safety capabilities.

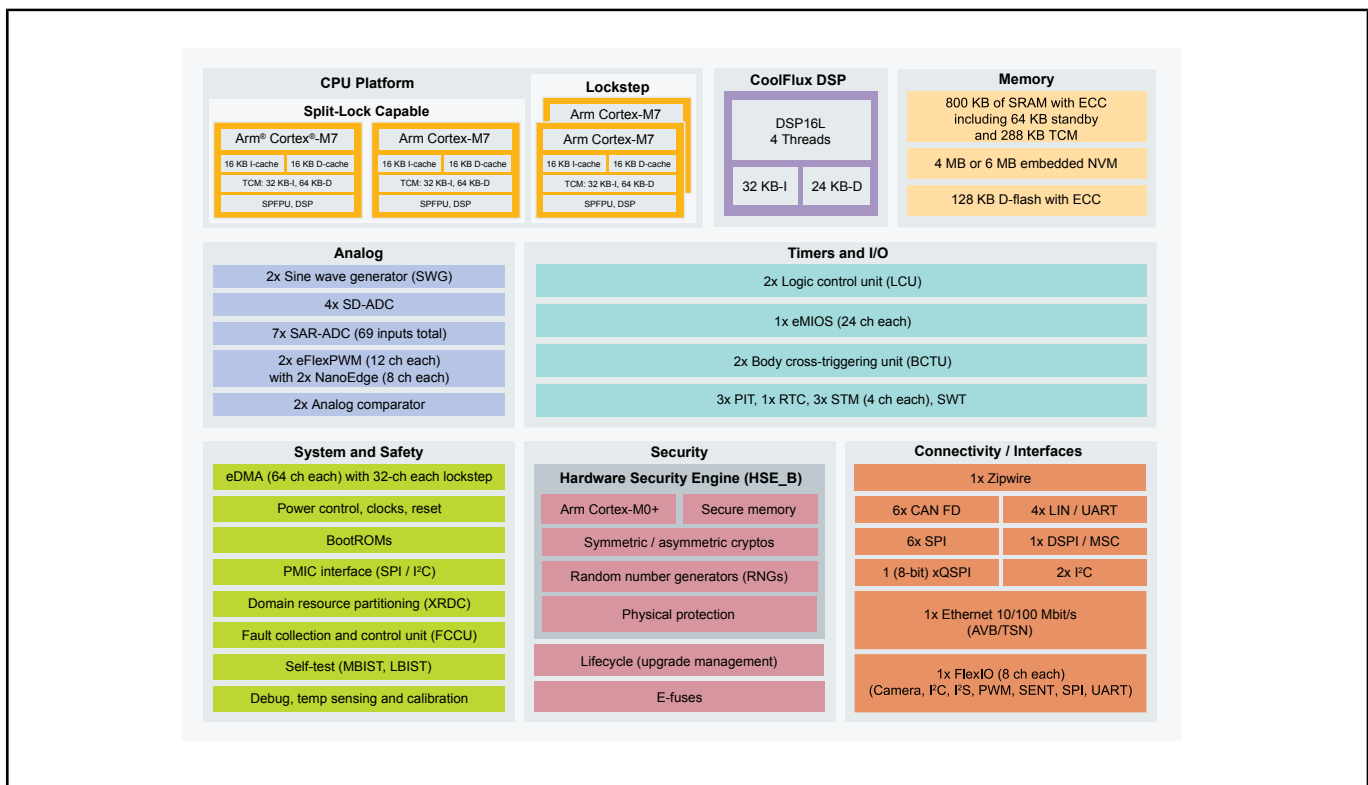
S32K39-36 has enough compute power to support up to one six-phase or two three-phase motors controlled by over 200 kHz control loops, while hosting AI/ML algorithms or other monitoring applications. It supports remote smart actuation applications using Time-Sensitive Networking (TSN) Ethernet for new zonal vehicle architectures. It also reduces system cost with ASIL D software resolver and analog integration.

The S32K37 high-compute capabilities are ideal for high-end [battery management systems](#) (BMS) applications.

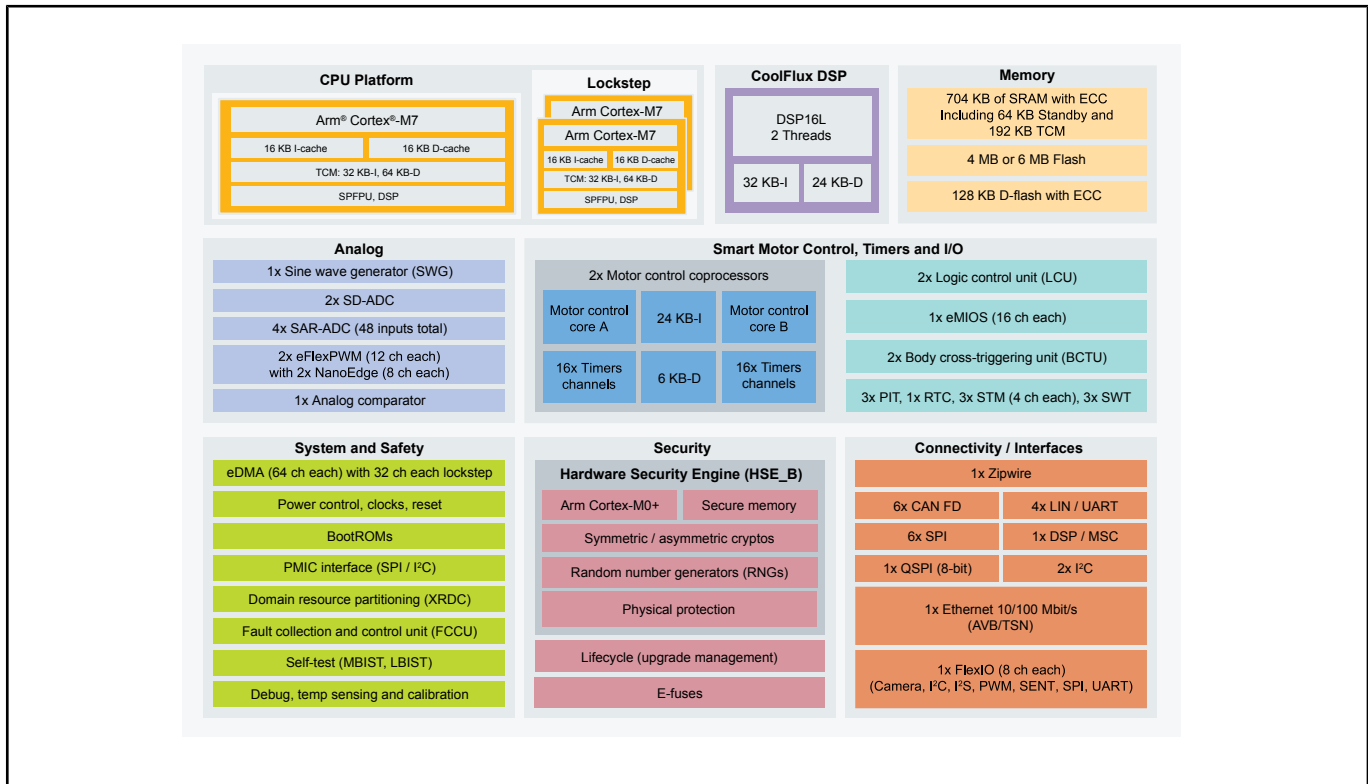
S32K39 Microcontrollers Block Diagram



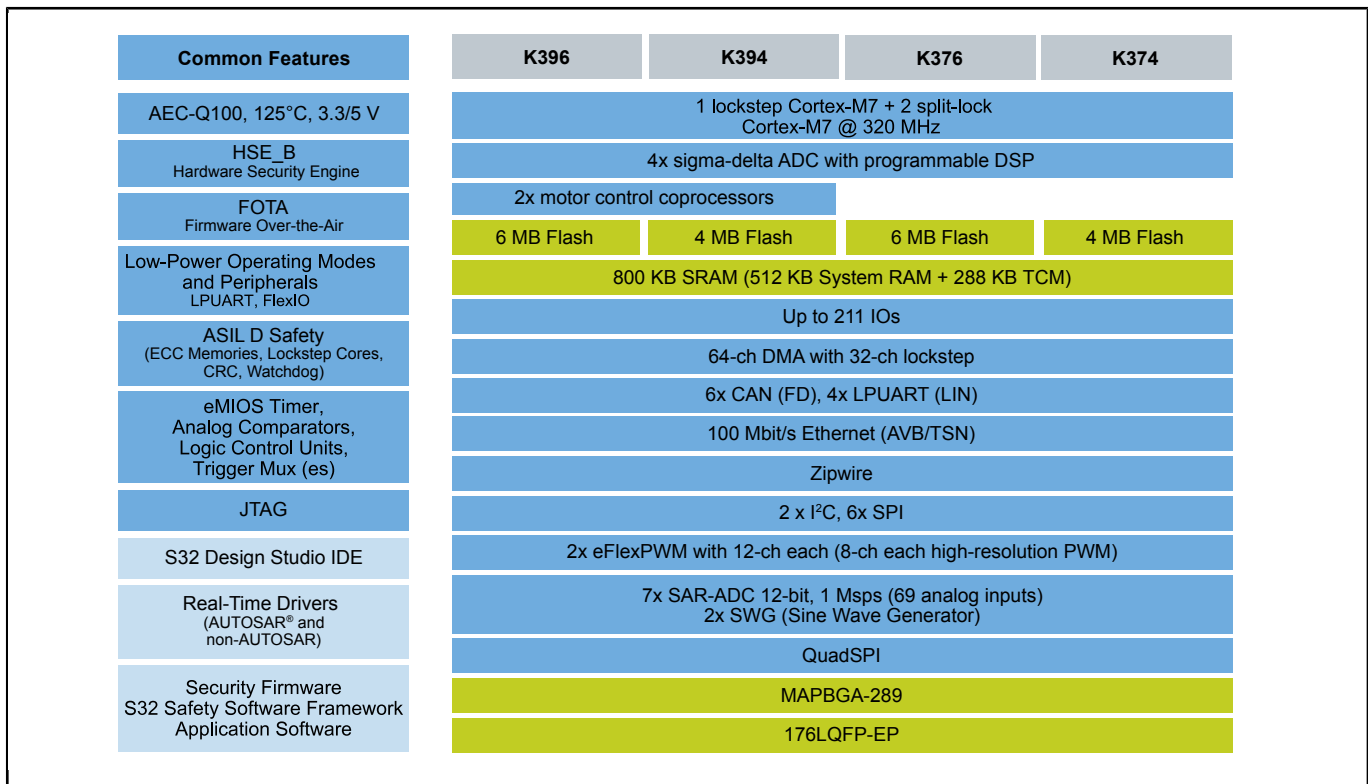
S32K37 Microcontrollers Block Diagram



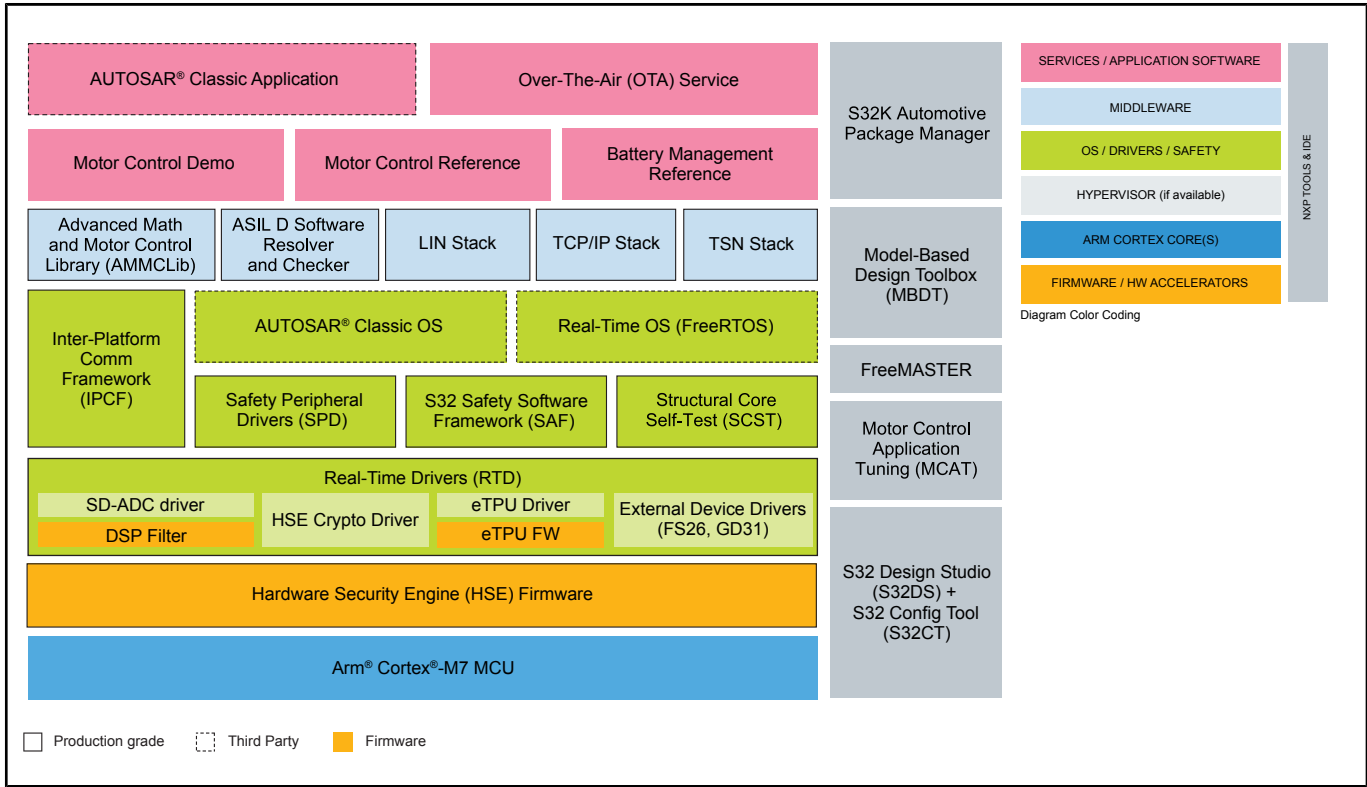
S32K36 Microcontrollers Block Diagram



S32K39/37 Microcontrollers Features Block Diagram



S32K39/37/36 Software Enablement Block Diagram



View additional information for [S32K39/37/36 Microcontrollers for Electrification Applications](#).

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