

S32M2 Integrated Solution for 12V Motor Control

S32M2

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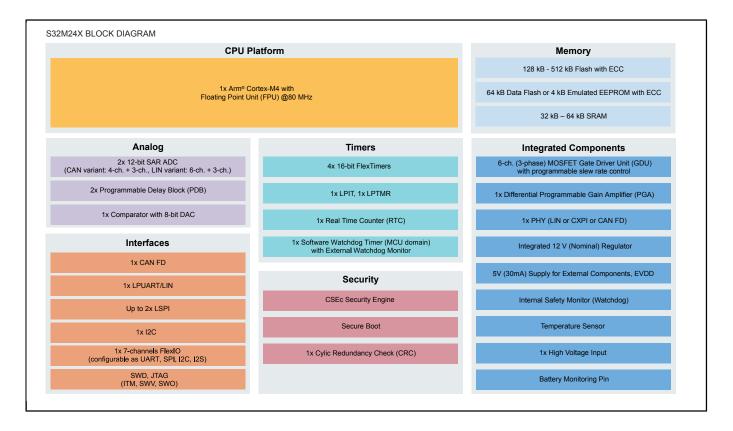
Designed for 12V motor control applications, the S32M2 family, based on system-in-package (SiP) design, integrates high-voltage analog functionalities (MOSFET gate pre-drivers, physical communication interfaces - LIN/CAN FD, and voltage regulators) with a robust embedded MCU Core (S32K Arm® Cortex®-M4/M7 series core), ensuring high-performance and functional safety compliance with ISO 26262 up to ASIL B.

Key features include platform-based design of motor control edge nodes enabling faster time to market, advanced data analysis capabilities, inverter and motor diagnostic capabilities and advanced algorithms to minimize in-cabin noise.

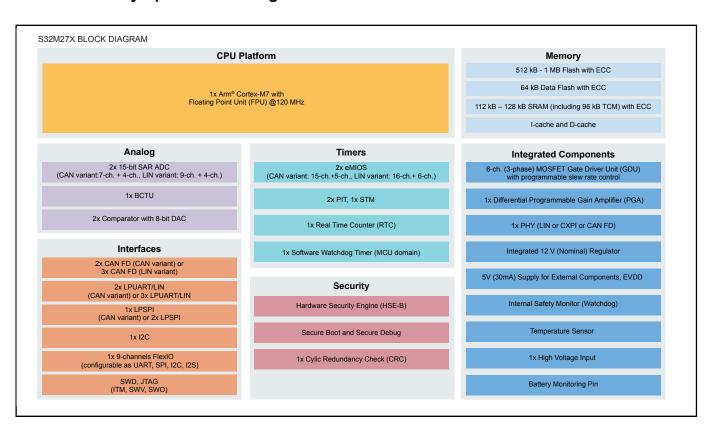
Through compatibility with the NXP S32 Automotive Platform, the S32M2 Family enables seamless firmware over-the-air (FOTA) updates, software reuse and flexibility.

With attention to cost at the system level, S32M2 integrates voltage regulators, pulse-width modulators, analog to digital converters, timers and non-volatile memory to reduce overall component count and reduce board space in a 64-pin LQFP-EP package.

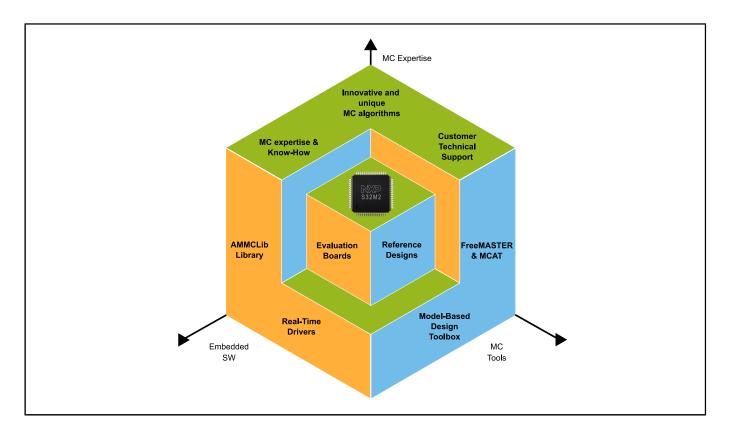
S32M24x Family Specs Block Diagram



S32M27x Family Specs Block Diagram



S32M2 Motor Control Solution Diagram Block Diagram



View additional information for S32M2 Integrated Solution for 12V Motor Control.

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