FRDM Automotive S32M244 PMSM/ BLDC Motor Control Development Board

FRDM-A-S32M244

Last Updated: Jul 31, 2026

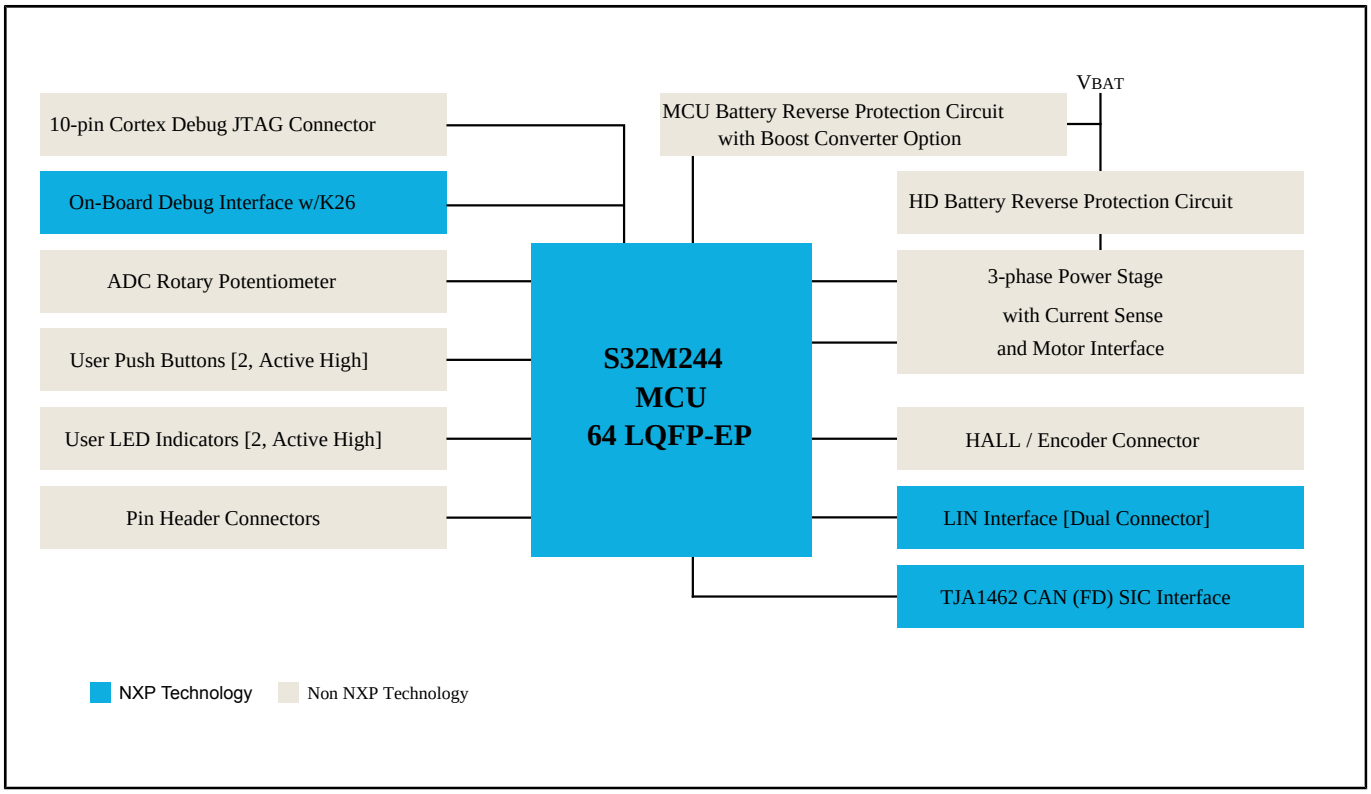
S32M24XEVB Renamed to FRDM-A-S32M244: Now part of the FRDM Automotive Ecosystem under its new name, the board keeps the same hardware and adds full ecosystem compatibility for flexible, scalable development.

The FRDM-A-S32M244 and FRDM-A-S32M244L are development boards engineered for 3-phase brushless direct current (BLDC) and permanent magnet synchronous motor (PMSM) control applications like electric pumps, cooling systems and actuators, used in sunroof control or seat position adjustment.

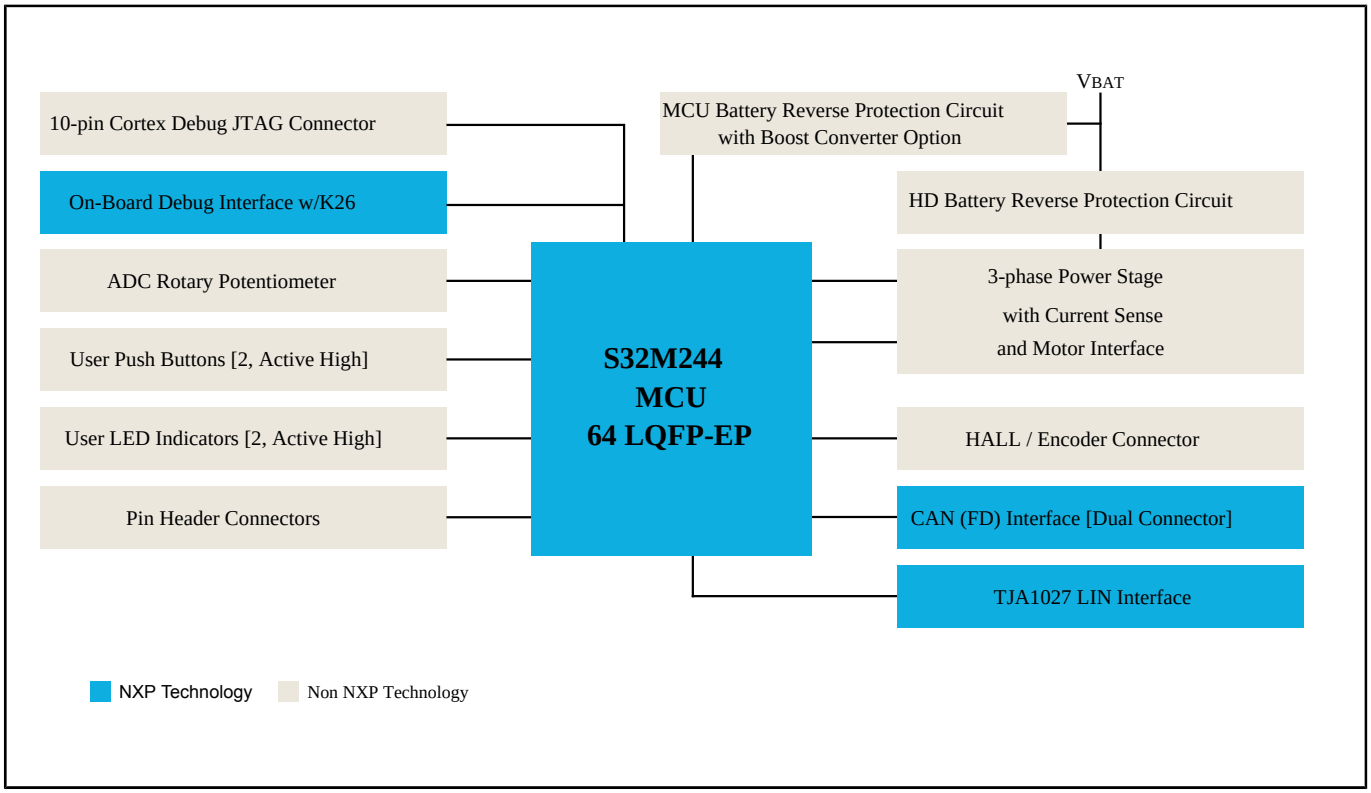
Based on the S32M244 integrated solution that offers a 32-bit Arm® Cortex®-M4 S32K1 microcontroller and an analog die with voltage regulator, gate driver, current sensing and LIN/ CAN physical layer in a system-in-package (SiP) design, this development board enables rapid prototyping and evaluation of BLDC and PMSM control applications without having to wait for the final hardware design.

The FRDM-A-S32M244 and FRDM-A-S32M244L leverage the MCSPTE1AK344 application software with the Automotive Math and Motor Control Library (AMMCLib) set plus Real-Time Drivers (RTD) software package to provide a complete reference implementation for both 3-phase BLDC and PMSM motor control.

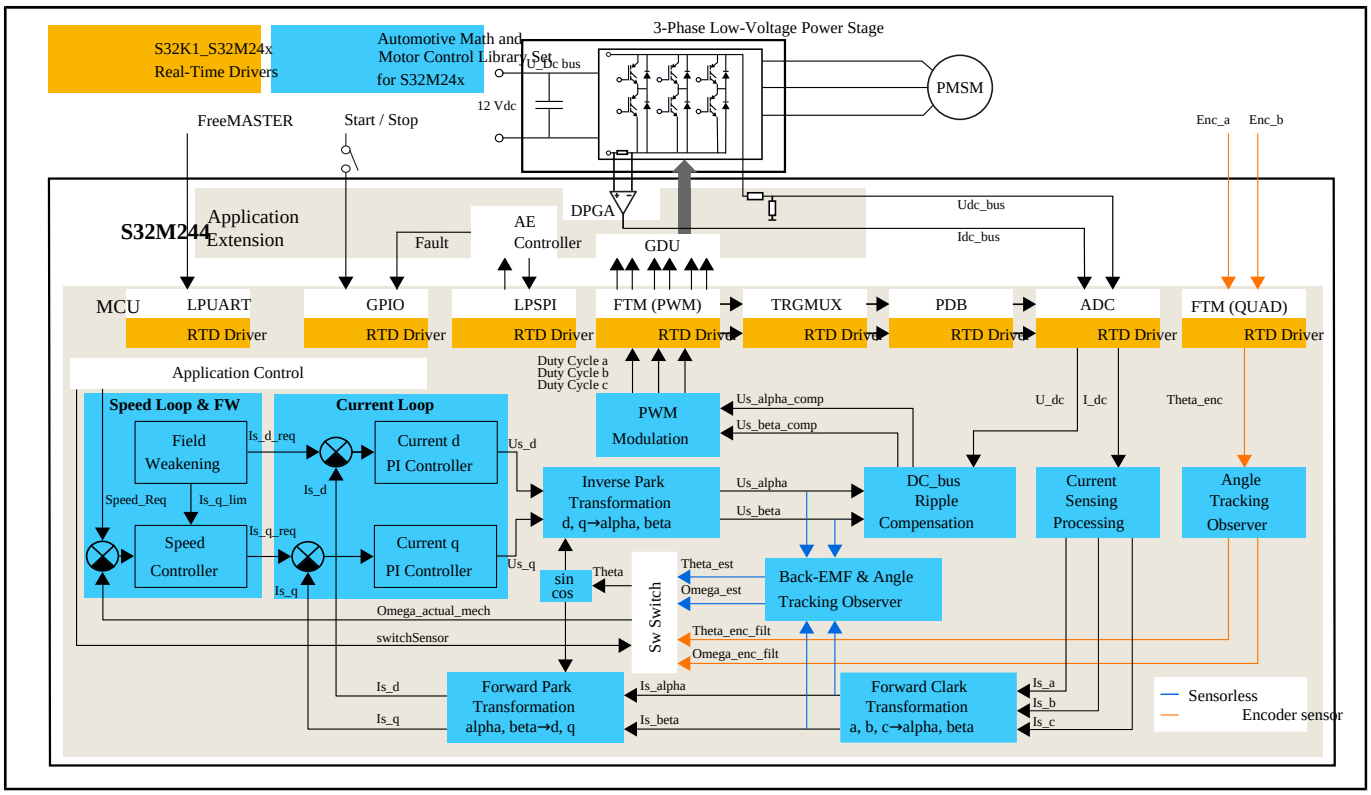
S32M24 EVB with LIN Interface Block Diagram



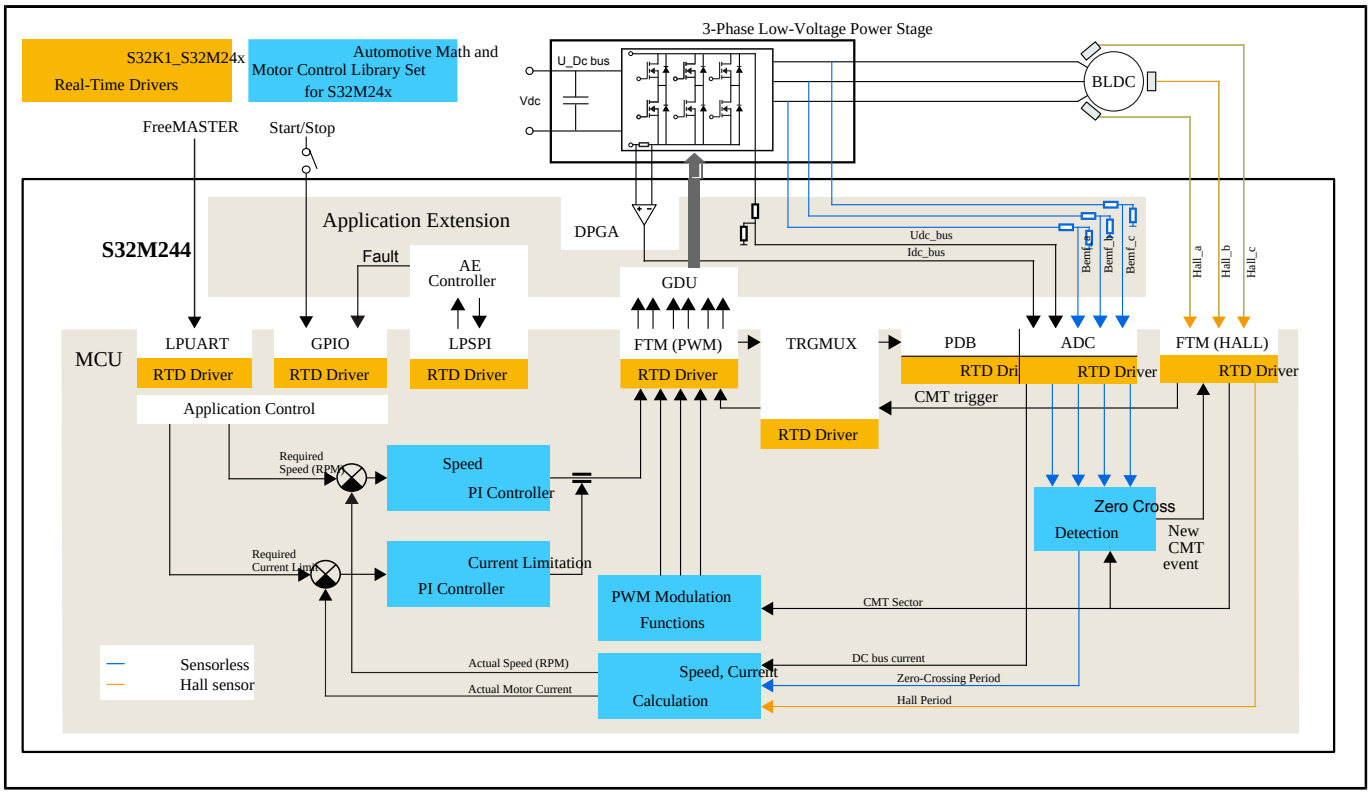
S32M24 EVB with CAN Interface Block Diagram



FRDM-A-S32M244 FOC Application Block Diagram



FRDM-A-S32M244 BLDC 6-Step Application Block Diagram



View additional information for FRDM Automotive S32M244 PMSM/BLDC Motor Control Development Board.

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