S32M276SFFRD Reference Design Board for Automotive Motor Control

S32M276SFFRD

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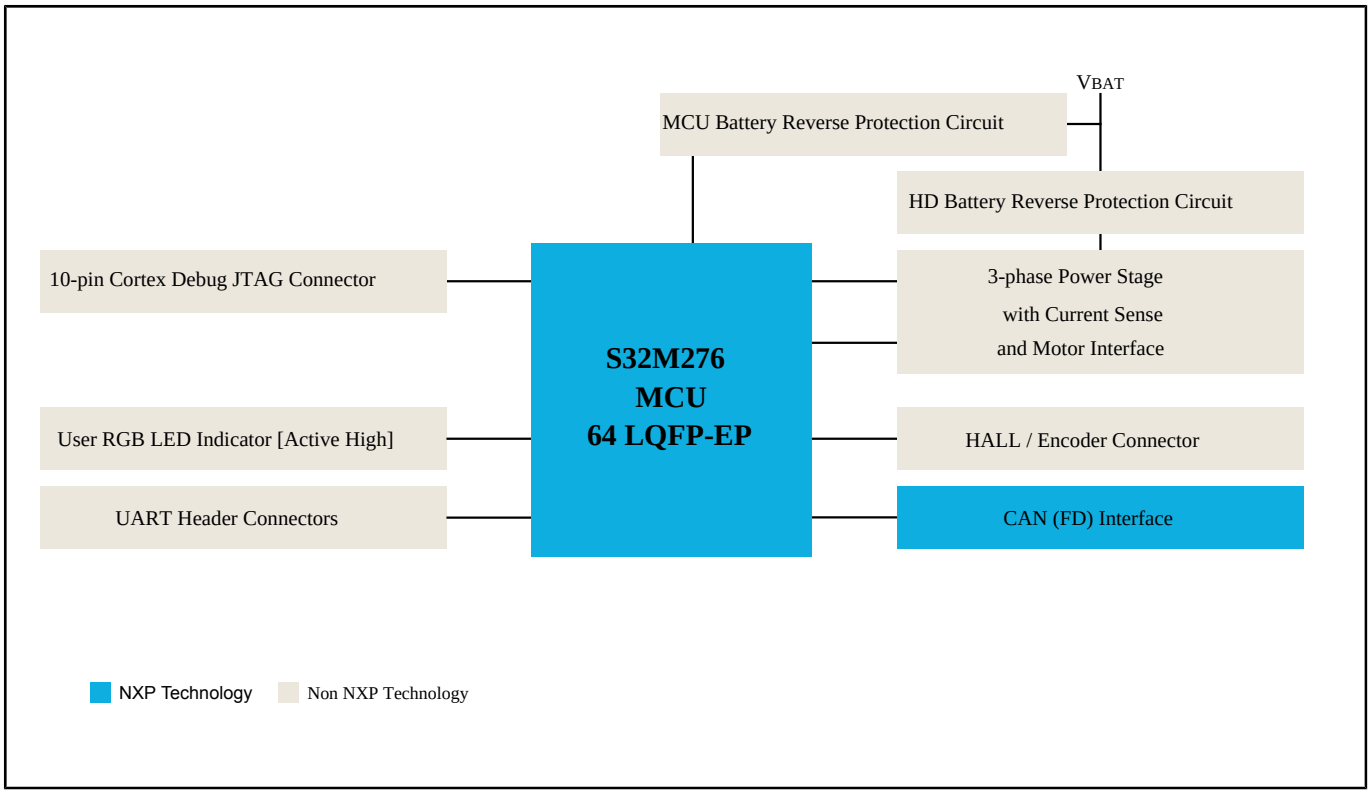
The S32M276SFFRD is a reference design board for automotive BLDC and PMSM motor control applications. Based on the S32M276 integrated solution, which offers a 32-bit Arm® Cortex®-M7 S32K3 microcontroller and an analog die with voltage regulator, gate driver and current sensing in a system-in-package (SiP) design.

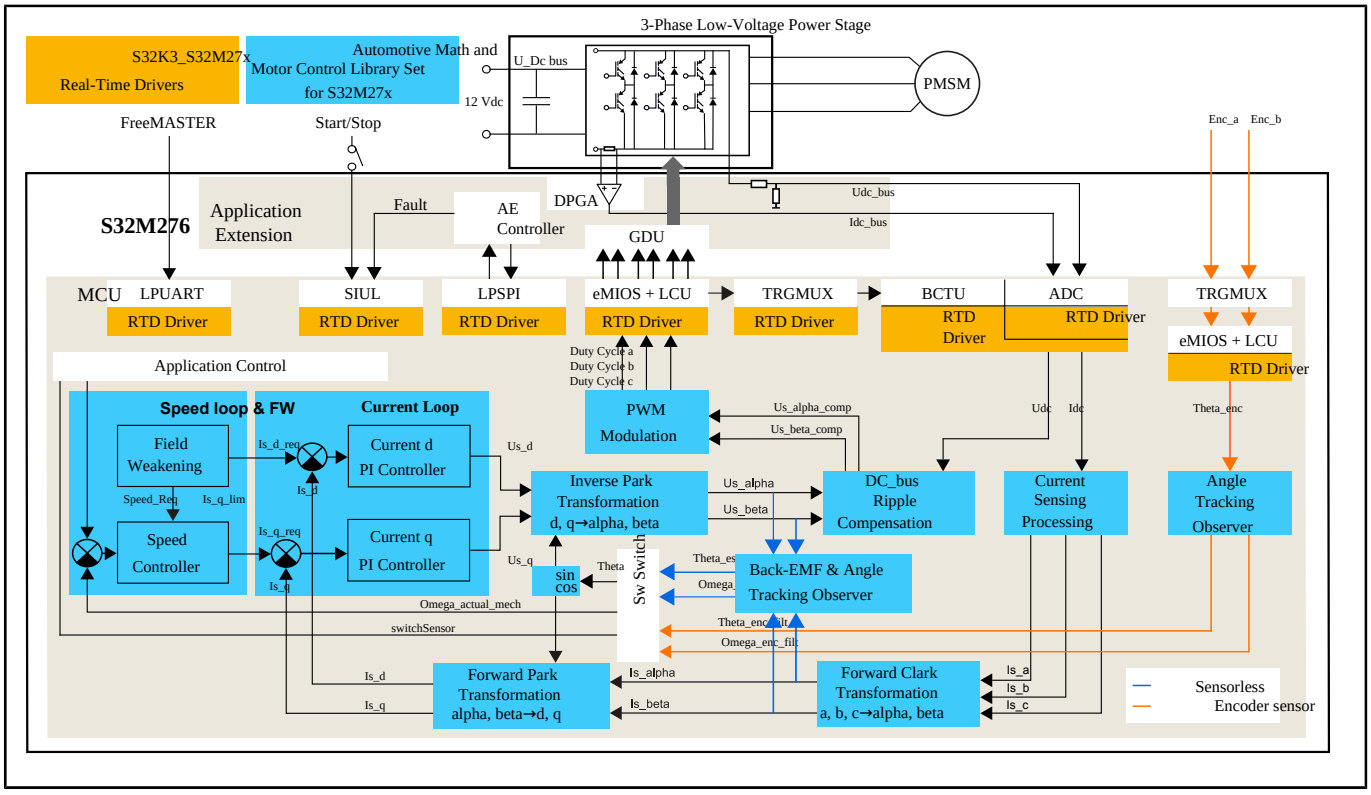
The S32M276SFFRD is designed to demonstrate BOM and PCB size reduction. In a less than 2-inch diameter (5 cm diameter) the boards are able to drive BLDC/PMSM motor control applications.

The S32M276SFFRD offers UART, CAN (FD) (using internal PHY), RGB LED, JTAG 10-pin connector and faston connectors for power supply and 3-phase motor.

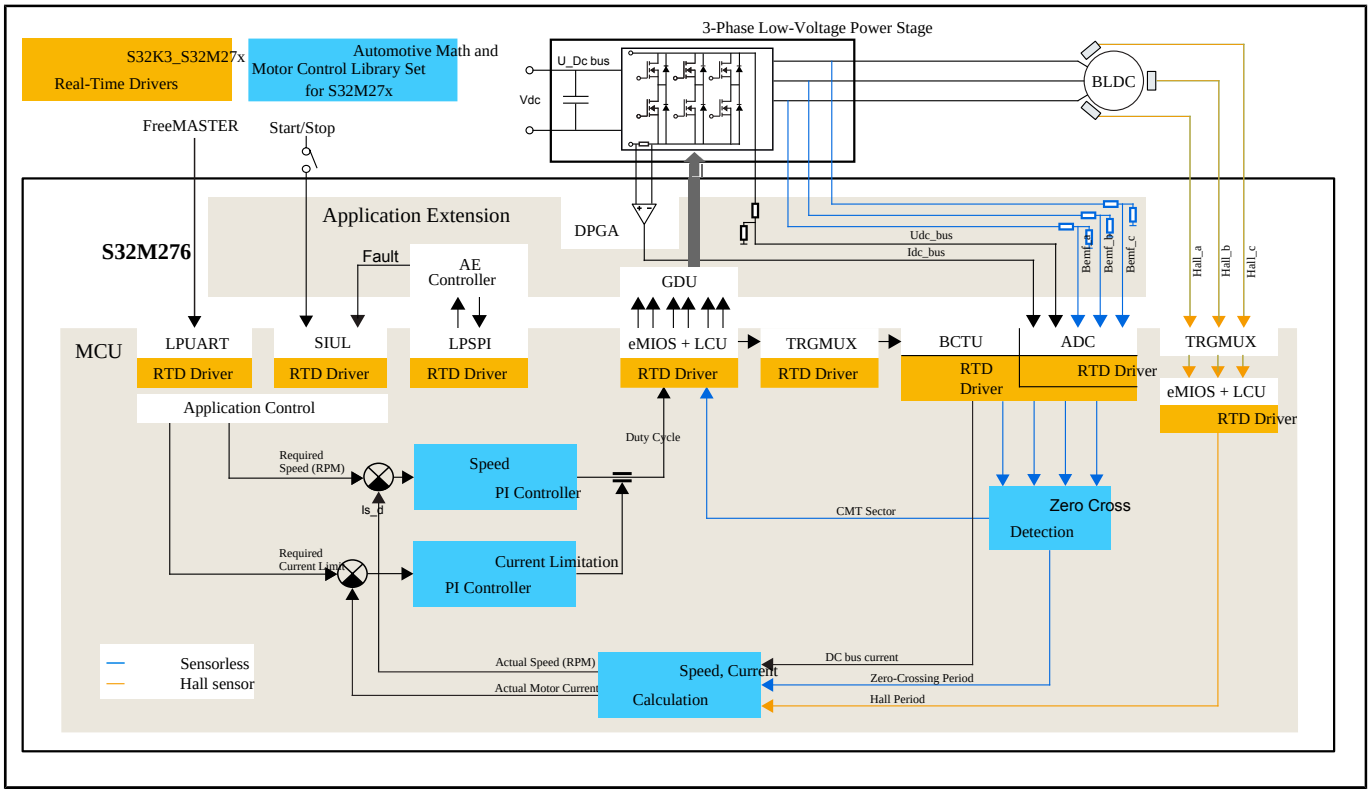
S32M276SFFRD Block Diagram



S32M276 PMSM FOC Application Block Diagram



S32M276 BLDC 6-Step Application Block Diagram



View additional information for S32M276SFFRD Reference Design Board for Automotive Motor Control.

Note: The information on this document is subject to change without notice.