S32K344 Brushless Direct Current and Permanent Magnet Synchronous Motor Control Development Kit

MCSPTE1AK344

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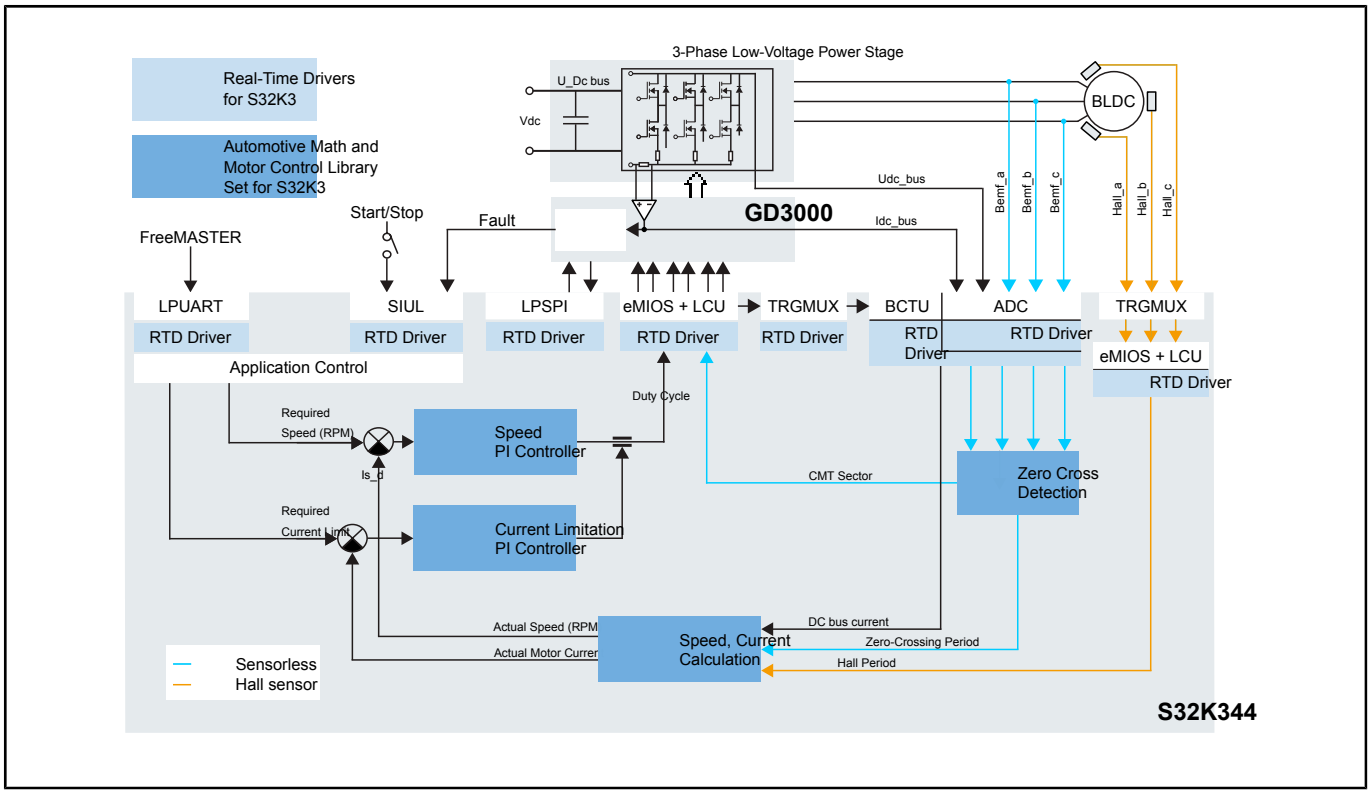
The MCSPTE1AK344 is a development kit engineered for brushless direct current (BLDC) motor control, targeting heating, ventilation and air conditioning (HVAC) or electric pumps, and 3-phase permanent magnet synchronous motor (PMSM) control, targeting active suspension, electric powertrain, eTurbo or belt start generator.

Based on the 32-bit Arm® Cortex®-M7 S32K3 microcontroller and the GD3000 pre-driver, the MCSPTE1AK344 enables rapid prototyping and evaluation of BLDC and PMSM control applications without having to wait for the final hardware design.

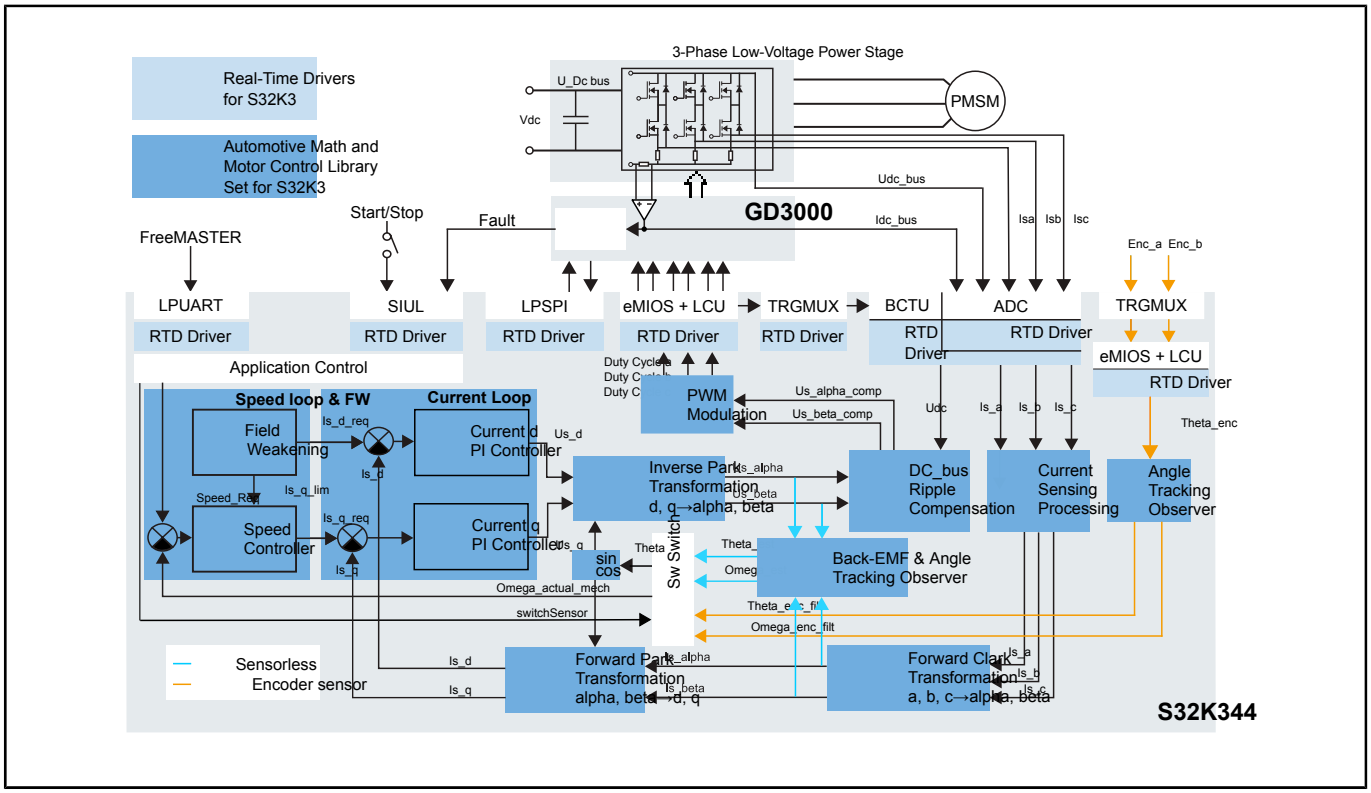
The MCSPTE1AK344 application software leverages the Automotive Math and Motor Control Library (AMMCLib) set plus Real-Time Drivers (RTD) software package to provide a complete reference implementation for both 3-phase BLDC and PMSM motor control.

The RTD software allows building motor control applications for both AUTOSAR® and non-AUTOSAR environments.

MCSPTE1AK344 BLDC Development Kit Block Diagram



MCSPTE1AK344 PMSM Development Kit Block Diagram



View additional information for S32K344 Brushless Direct Current and Permanent Magnet Synchronous Motor Control Development Kit.

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