



S32K344 Motor Control Development Kit for High-Power 48 V Applications

MC_XTM4CK344

Preproduction

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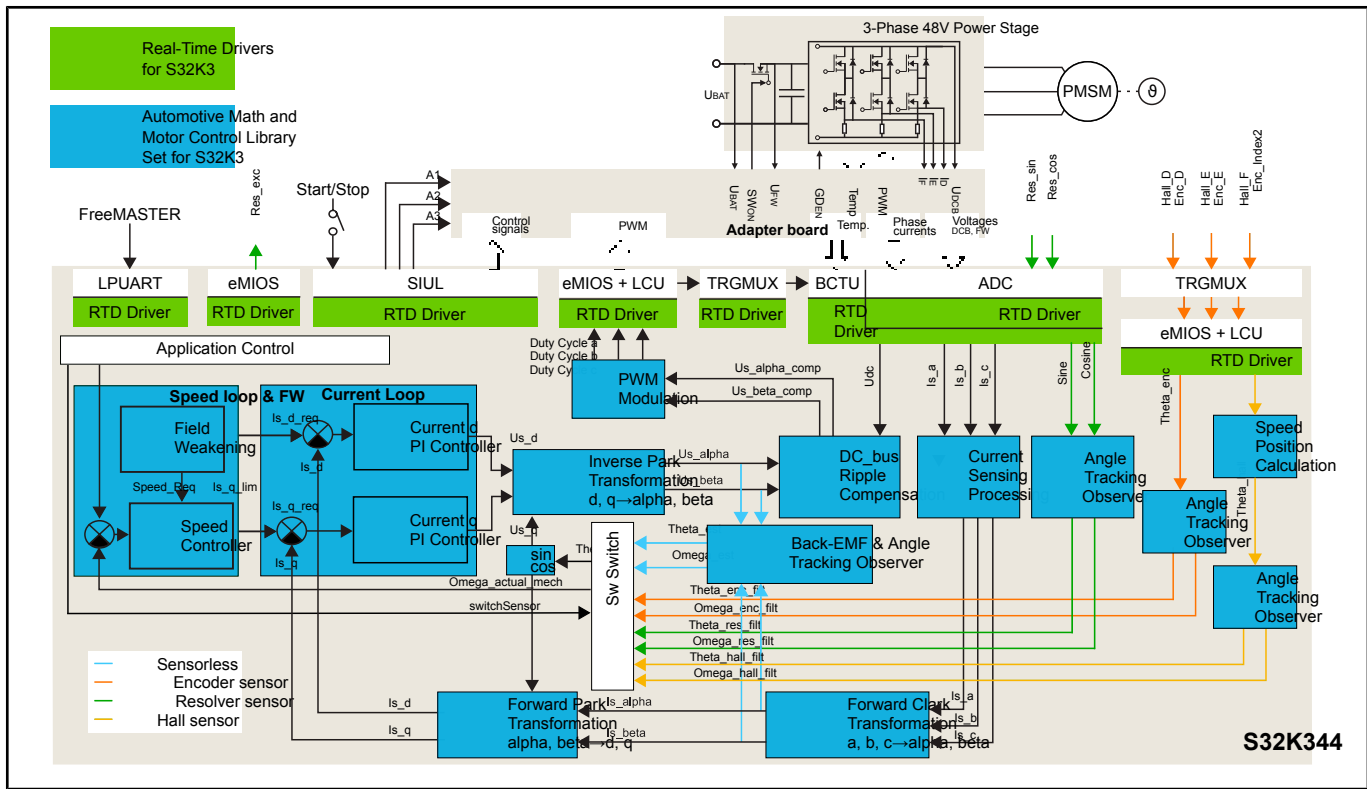
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The MCSXTM4CK344 and MCDXTM4CK344 are motor control development kits for rapid prototyping and evaluation of high-power 48 V applications.

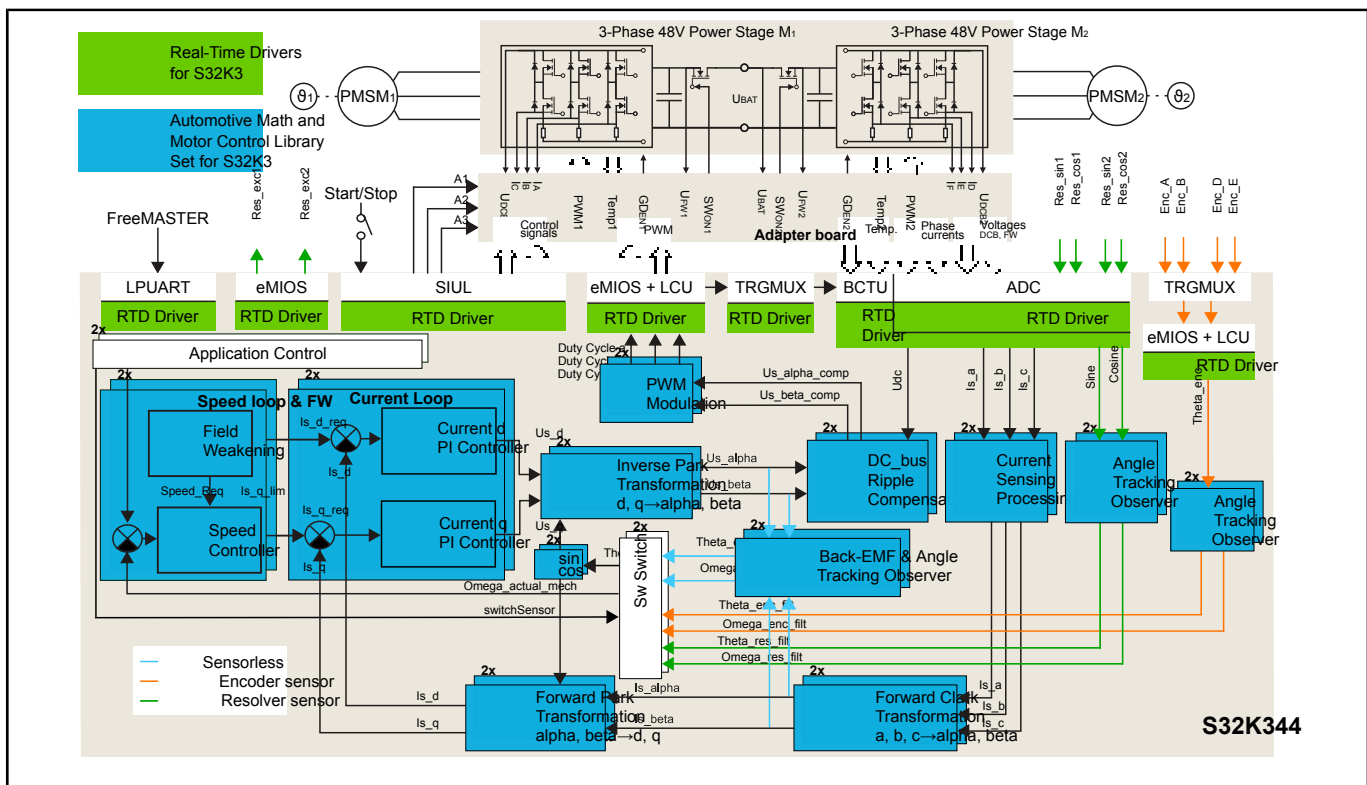
Based on the 32-bit Arm® Cortex®-M7 S32K3 microcontroller, the MCSXTM4CK344 kit controls one 3-phase permanent magnet synchronous motor (PMSM) or brushless direct current (BLDC) motor, while the MCDXTM4CK344 development kit may control either two 3-phase motors or one 6-phase PMSM/BLDC motor.

The 48 V development kit can be used directly by automotive manufacturers, suppliers and software ecosystem partners to accelerate development for a shorter time to market in 48 V applications like starter generators, eTurbo, eCompressors or a small traction drives for eBikes, e-Scooters and rickshaws.

S32K3 Single FOC Diagram Block Diagram



S32K3 Dual FOC Diagram Block Diagram



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