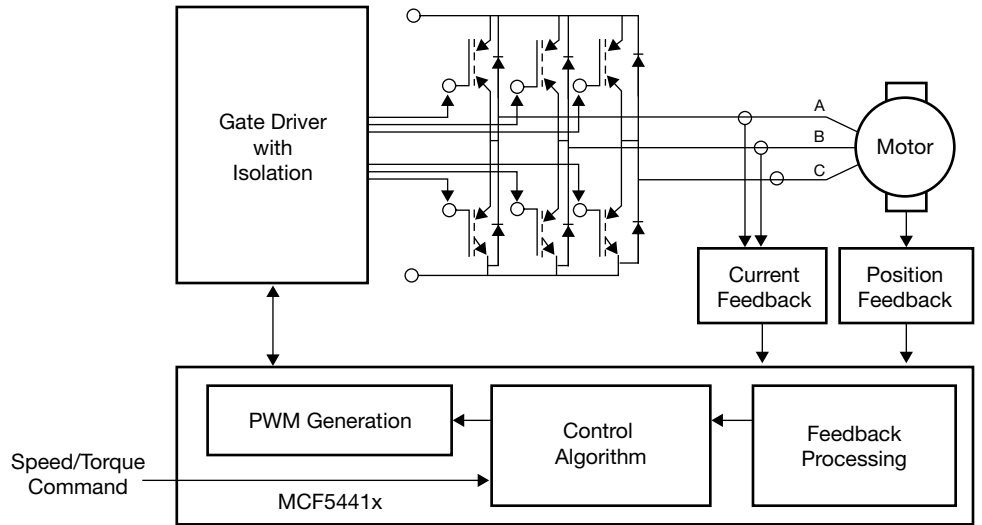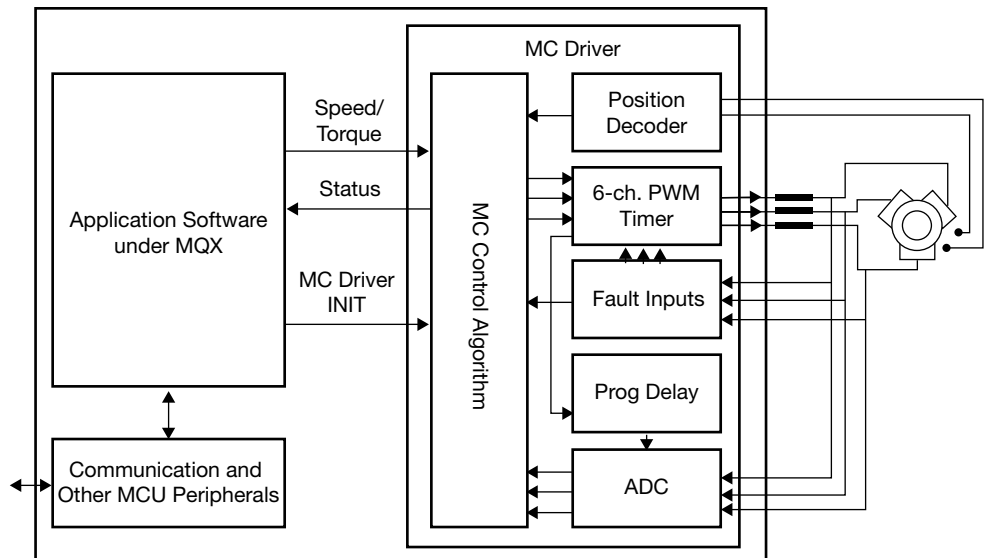# Motor Control Using MQX™ on MCF5441x

Overview:

- The MCF5441x is built to drive brushless direct current (BLDC) motor control while maintaining a low power profile

- MQX is a robust, feature-rich, royalty-free RTOS, provided complimentary with MCF5441x and has an integrated motor control drive

- Dedicated motor control driver
  - Calculates MC loops
  - Services integrated peripherals: PWM, ADC, and Timers

- Application software under MQX
  - Calculates speed and torque
  - Enables application control and communications

- MQX tasks are performed in time slots under the supervision of the motor control driver

Motor Control Topology

Integration of Motor Control into MQX™

MCF5441XMRCTRDVD REV 0

freescale ™
semiconductor