SAM D21E16L Motor Control Card

The ATSAMD21E16LMOTOR is an MCU card for Atmel Motor control starter kit - ATSAMxxxBDLCxxx-STK. The hardware has the Atmel SMART ARM based MCU, ATSAMD21E16L, with integrated on-board debug support. The MCU card can be directly used with the currently available ATSAMD21BLDC24V-STK, a low voltage BLDC, PMSM motor control starter kit.

Key Features

Debug support using on-board Atmel EDBG device
TCC PWM signals for three-phase half-bridge drive
ADC channels for common shunt and individual shunt phase current sensing
ADC channels for motor BEMF sensing
AC channels for BEMF signals
EXTINT hall sensor interface
EXTINT encoder sensor interface
Atmel Xplained PRO extension signals support
Communication and Power status LEDs