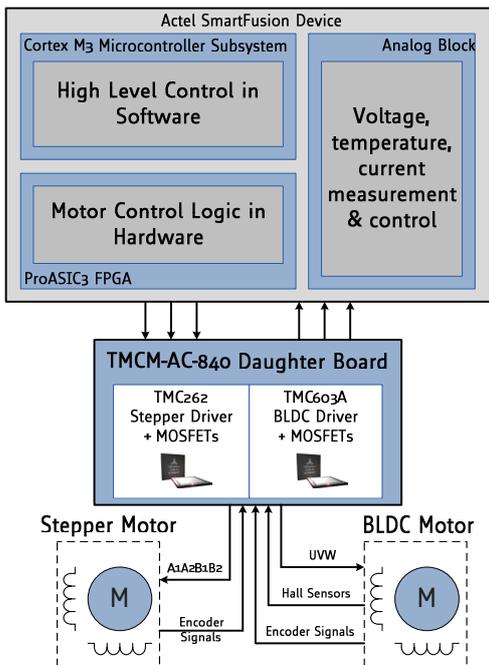


**INFO** The TRINAMIC TCMC-AC-840 Daughter Board Kit is an FPGA prototyping platform for power drivers for brushless DC motors (BLDC) as well as stepper motors. The TCMC-AC-840 Daughter Board Kit incorporates one TMC603A BLDC motor driver IC and one TMC262 coolStep™ stepper motor driver IC as well as two fitting motors to start prototyping right away.

The TCMC-AC-840 is designed to operate with Microsemi/Actel SmartFusion™ Development Kits (Revision C and later) as well as Microsemi/Actel SmartFusion™ Evaluation Kits.

More information on Microsemi/Actel SmartFusion™ devices and SmartFusion™ Development and Evaluation Kits can be found on [www.Microsemi/Actel.com](http://www.Microsemi/Actel.com).



## TMCM-AC-840

Daughter Board Kit for the Microsemi/Actel SmartFusion™ Development and Evaluation Kits



### MAIN CHARACTERISTICS

- KIT CONTENTS**
- 1 BLDC motor pre-driver TMC603A with hallFX™
  - 1 energy saving high resolution micro-stepping stepper motor driver TMC262 with coolStep™, stallGuard2™, spreadcycle, microPlyer technologies
  - 1 BLDC motor, 1 stepper motor
  - 1 portable power supply with international adapters
  - 1 hard top case
- BOARD FEATURES**
- Hall sensor interface, ABN encoder interface
  - Tightly connected to the SmartFusion™ analog IOs and analog computing engine (ACE)
  - All signals of the Mixed Signal Header can be accessed via a pin header for test and measurement
  - Parallel operation of BLDC & stepper motor
  - Pin-compatible to the Microsemi/Actel SmartFusion Development Kit & Microsemi/Actel SmartFusion™ Evaluation Kit
  - Independent voltage supplies for Stepper and BLDC block
- FREE SOURCE CODE**
- Free Libero/SoftConsole demo project with free VHDL/C code (GPL) for the Microsemi/Actel SmartFusion Development Kit



Example:  
TCMC-AC-840 connected to Microsemi/Actel Development Kit

ORDER CODE	DESCRIPTION
TMCM-AC-840	Daughter Board for the Microsemi/Actel SmartFusion™ Dev & Eval Kits, incl. 2 motors
TMC262-LA	coolStep™ driver for external MOSFETs, QFN32
TMC603A-LA	Driver for external 20A MOSFETs, QFN52 package

