

Motor Control and PFC Developer's Kit

(OBSOLETE) TMD51MTRPFCKIT

-  **Description & Features**
-  **Technical Documents**
-  **Support & Community**
-  **Order Now**

See Also
[DRV8301-69M-KIT](#)- Three Phase BLDC & PMSM Motor Kit with DRV8301 and InstaSPIN-enabled Piccolo TMS320F28069MMCU
[DRV8301-HC-C2-KIT](#)- Three Phase BLDC & PMSM Motor Kit with DRV8301 and Piccolo MCU
[DRV8312-69M-KIT](#)- Three Phase BLDC Motor Kit with DRV8312 and InstaSPIN-Enabled Piccolo TMS320F28069MMCU
[DRV8312-C2-KIT](#)- Three Phase BLDC Motor Kit with DRV8312 and Piccolo MCU
[TMD52MTRPFCKIT](#)- Dual Motor Control and PFC Developer's Kit
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Description

This tool is no longer orderable and is obsolete. These are the alternate tools to take a look at:

- [TMD52MTRPFCKIT](#)
- [DRV8312-69M-KIT](#)
- [DRV8301-69M-KIT](#)

The Piccolo F28035 based Motor Control and PFC Developer's kit from Texas Instruments leverages the real-time control capabilities of Piccolo, along with TI's industry leading analog, to bring field oriented motor control and power factor correction into cost sensitive applications. The kit includes everything needed to start development: a motor control baseboard with onboard, isolate USB JTAG emulation, F28035 controlCARD, 1 permanent magnet motor, and a desktop DC power supply. The software included with this kit controls up to two permanent magnet motors using sensorless field oriented control techniques, and is tuned for the motors included with the kit. The software also digitally controls the two phase interleaved power factor correction (PFC) stage.

Features

- Two motor control stages for controlling permanent magnet motors
- Power factor correction stage actively controlled by the Piccolo microcontroller
- Detailed example projects and documentation for power factor correction and motor control stages
- Detailed example project demonstrating how to combine the two onto one microcontroller

What's Included

- Piccolo F28035 controlCARD
- PFC and dual motor control baseboard with onboard isolated USB JTAG emulation
- 24V DC desktop power supply
- 55W permanent magnet motor
- Code Composer V3.3 with 32KB code size limit
- Detailed example software and documentation
- Complete hardware schematics, gerber files, etc

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 TMS320C2000 Motor Control Primer (Rev. A)	Read Abstract	PDF	21	05 Feb 2011	7,449

White Papers (1)

Title	Abstract	Type	Size (KB)	Date	Views
 Designing High-Performance and Power-Efficient Motor Control Systems White Paper (Rev. A)		PDF	179	20 Apr 2012	3,647

More Literature (3)

Title	Abstract	Type	Size (KB)	Date	Views
 Motor Control and PFC Developer's Kit Quick Start Guide (Rev. B)	Read Abstract	PDF	1622	18 Oct 2010	1,770
 Connecting Code Composer Studio to a TMS320C2000 Device	Read Abstract	PDF	447	06 Jul 2009	2,590
Motor Control and PFC Developer's Kits Overview [MPG]		MP4	99683	19 Jun 2009	288

Related Products

Software (4)

Name	Part Number	Software Type
C2000 Experimenter Kit Application Software	SPRC675	Application Software & Frameworks
Motor Control and PFC Developer's Kit Software	SPRC922	Application Software & Frameworks

 [C2000 F28035 Motor Control and PFC Developer's Kit User's Guide](#)

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TI Devices (2)

Part Number	Name	Product Family
TMS320F28027	Piccolo Microcontroller	C2000 32-bit Real-time Control MCUs
TMS320F28035	Piccolo Microcontroller	C2000 32-bit Real-time Control MCUs

Support and Community

TI E2E™ Community



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C2000™ 32-bit Real Time MCUs	Tiva™ C Series ARM® Cortex-M MCUs	Development Tools

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