

# controlCARD with Piccolo TMS320F28069MPZT, InstaSPIN-FOC and InstaSPIN-MOTION enabled

(ACTIVE) TMDSCNCD28069MISO

Description & Features

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## Description

Featuring the TMS320F28069M MCU, capable of running the InstaSPIN-FOC and InstaSPIN-MOTION solutions from on-chip ROM, the TMDSCNCD28069MISO controlCARD provides a convenient and standardized hardware interface to begin experimentation with the latest motor control technology from Texas Instruments.

What is a C2000 controlCARD?

C2000™ controlCARDS from Texas Instruments are a unique set of daughter cards enabling experimentation with C2000's broad portfolio of MCUs for device evaluation and application development. Designed with a DIM100 or larger, plug-in connector, controlCARDS are easily interchangeable throughout C2000's collection of development kits, giving users the ability to experiment with various C2000 MCUs in order to find the right MCU fit for an application. controlCARDS give access to all digital I/Os, analog I/Os, and JTAG signals from the C2000 MCU, providing a simple, modular, and standardized board-level interface to the C2000 MCU.

## Features

- Piccolo TMS320F28069M MCU featuring motor control libraries in on-chip ROM
- Isolated USB JTAG Interface (XDS100v2)
- Standard 100-pin DIMM interface
- Analog I/O, digital I/O, JTAG signals at DIMM interface
- Single 5V power rail for full operation

## What's Included

- F28069MISO controlCARD
- Latest USB contents for the motor kits [here](#).
- Motor Control software projects available through MotorWare at [www.ti.com/tool/motorware](http://www.ti.com/tool/motorware)
- General hardware and software support through controlSUITE at [www.ti.com/tool/controlsuite](http://www.ti.com/tool/controlsuite)

## Order Now

Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
TMDSCNCD28069MISO: controlCARD with Piccolo TMS320F28069MPZT, InstaSPIN™-FOC enabled	\$99.00(USD)  In Stock Typically Ships in 1 to 3 Business Days  <a href="#">Buy from TI</a>	Pricing may vary.          <a href="#">Buy from distributor</a>	ACTIVE

Contact a Distributor

TI's Standard Terms and Conditions for Evaluation Modules apply.

## Technical Documents

### Datasheet (1)

Title	Abstract	Type	Size (KB)	Date	Views
<a href="#">TMS320F2806x Piccolo™ Microcontrollers (Rev. E)</a>		PDF	1983	02 Jul 2014	

### User Guides (4)

Title	Abstract	Type	Size (KB)	Date	Views
<a href="#">InstaSPIN-FOC and InstaSPIN-MOTION User's Guide (Rev. F)</a>		PDF	39520	15 Jul 2014	6,413
<a href="#">TMS320F2806xM InstaSPIN-MOTION Technical Reference Manual (Rev. B)</a>		PDF	1765	26 Mar 2014	3,725
<a href="#">TMS320F2806xF InstaSPIN-FOC Software Technical Reference Manual (Rev. A)</a>		PDF	475	14 Jan 2014	2,893
<a href="#">InstaSPIN SIM User's Guide</a>	<a href="#">Read Abstract</a>	PDF	1550	14 Jun 2013	1,154

### More Literature (1)

Title	Abstract	Type	Size (KB)	Date	Views
<a href="#">Breakthrough InstaSPIN™-FOC motor control technology is here</a>		PDF	216	17 Oct 2012	1,938

## Related Products

### Software (3)

Name	Part Number	Software Type
<a href="#">controlSUITE™ Software Suite: Essential Software and Development Tools for C2000™ Microcontrollers</a>	CONTROLSUITE	Software Libraries
<a href="#">Motor Kit Application Software for TMDSCNCD28069MISO controlCARDS</a>	MOTORKITSNCD69MISO	Application Software & Frameworks
<a href="#">MotorWare™ Software</a>	MOTORWARE	Application Software & Frameworks

### Development Tools (1)

Name	Part Number	Tool Type
<a href="#">InstaSPIN™ Simulation Tool</a>	INSTASPINSIM	Circuit Design & Simulation

### Design Kits & Evaluation Modules (3)

Name	Part Number	Tool Type
<a href="#">High Voltage Motor Control Kit with InstaSPIN-FOC and InstaSPIN-MOTION enabled Piccolo MCU</a>	TMDSHVMTRINSPIN	Evaluation Modules & Boards
<a href="#">Three Phase BLDC &amp; PMSM Motor Kit with DRV8301 and InstaSPIN-enabled Piccolo TMS320F28069M MCU</a>	DRV8301-69M-KIT	Evaluation Modules & Boards
<a href="#">Three Phase BLDC Motor Kit with DRV8312 and InstaSPIN-Enabled Piccolo TMS320F28069M MCU</a>	DRV8312-69M-KIT	Evaluation Modules & Boards

### TI Devices (7)

Part Number	Name	Product Family
<a href="#">TMS320F28026F</a>	Piccolo Microcontroller with InstaSPIN-FOC	Real-time Control
<a href="#">TMS320F28027F</a>	Piccolo Microcontroller with InstaSPIN-FOC	Real-time Control
<a href="#">TMS320F28062F</a>	Piccolo Microcontroller with InstaSPIN-FOC	Real-time Control
<a href="#">TMS320F28068F</a>	Piccolo Microcontroller with InstaSPIN-FOC	Real-time Control
<a href="#">TMS320F28068M</a>	Piccolo Microcontroller with InstaSPIN-MOTION	Real-time Control
<a href="#">TMS320F28069F</a>	Piccolo Microcontroller with InstaSPIN-FOC	Real-time Control
<a href="#">TMS320F28069M</a>	Piccolo Microcontroller with InstaSPIN-MOTION	Real-time Control

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