

[TI Home](#) > [Semiconductors](#) > [Microcontrollers](#) > Three Phase BLDC & PMSM Motor Kit with DRV8301 and Piccolo MCU

Worldwide (In English)

Three Phase BLDC & PMSM Motor Kit with DRV8301 and Piccolo MCU **Status: ACTIVE**

DRV8302-HC-C2-KIT

[Description/Features](#)

[Technical Documents](#)

[Support & Community](#)

[Order Now](#)

Description

The DRV8302-HC-C2-KIT is a motor control evaluation kit for spinning three phase brushless DC and and brushless AC (BLAC) - often referred to as permanent magnet synchronous (PMSM) – motors with examples of both sensorless Field Oriented / Vector Control (FOC) and TI's InstaSPIN-BLDC sensorless BLDC solution. The DRV8302-HC-C2-KIT is a high-performance, power-efficient, cost-effective platform that speeds development for quicker time to market. Applications include CPAP and pumps, E-bikes, E-scooters, medical pumps and drills, power tools, and robotics.

Features

DRV8302 2.3A sink/1.7A source, three phase inverter with integrated buck converter for 1.5A external loads.
C2000 Piccolo F28035 MCU controlCARD – preflashed with code to spin motors using GUI
Isolated XDS100 Emulation
CCStudio v4.x Integrated Development Environment
All software, hardware, and documentation available for free through [controlSUITE](#)

What's Included

NO Motor! – Instantly spin YOUR motor with InstaSPIN-BLDC
NO wall power supply, use your own DRV8301 baseboard with controlCARD slot
Piccolo Isolated F28035 controlCARD
USB Cable
USB Stick with GUI, CCStudio IDE, Quick Start Guide, and controlSUITE software (for all HW & SW source)



Three Phase BLDC & PMSM Motor Kit with DRV8302 and Piccolo MCU - DRV8302-HC-C2-KIT

Order Now

Part Number	Texas Instruments	Status	Price (US\$)
DRV8302-HC-C2-KIT: Three Phase BLDC & PMSM Motor Kit with DRV8301 and Piccolo MCU	ACTIVE		

Related Products

TI Devices

Part Number	Name	Product Family
DRV8301	3-Phase Brushless Motor Pre-Driver with Dual Current Sense Amps and Buck Converter (PWM Ctrl w/ SPI)	Pre-Driver
DRV8302	3-Phase Brushless Motor Pre-Driver with Dual Current Sense Amps and Buck Converter (PWM Ctrl)	Pre-Driver

Videos



Introduction to InstaSPIN™-BLDC Motor Control Solution

Learn more about TI's newest motor control technology for low-cost BLDC applications. InstaSPIN-BLDC is a sensorless control technique based on the premise that "simple is better". In field tests with over 50 different motor types, InstaSPIN-BLDC was able to get each motor up and running in less

Posted: 21-Sep-2011

Duration: 32:14

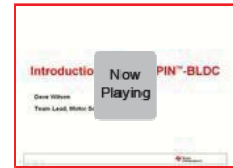
Views: 1196

Tags: motor control, motor, instaspin, bldc, brushless dc



For more information go to www.ti.com/instaspin-bldc

Related Videos



Introduction to InstaSPIN™-BLDC Motor Control Solution

Support and Community

Blogs

Come and Get It -- DRV8302 Motor Pre-Driver Available Now!

Hi Everyone, As a follow up to our Sept. 9 new release announcing the industry's most highly integrated motor pre-drivers, I'm pleased to announce that samples of the DRV8302 are now available. The DRV8302 is H/W control version of the DRV8301...

Posted to [Motor Driver Announcements](#) on 21 Sep 2011

[DRV8312-C2-KIT](#), [DRV8412-C2-KIT](#), [drv8301-hc-c2-kit](#), [drv8302-hc-c2-kit](#), : [Motor Drivers](#)

New motor pre-driver reduces board space 60% while driving up to 60-A FETs

Today we announced the DRV8301, the most highly integrated motor pre-driver available today, reducing board space as much as 60% compared to the next closest integrated solution. It can drive up to 60-A with external FETs, providing current scalability...

Posted to [Motor Driver Announcements](#) on 9 Sep 2011

[Motor Drivers](#), [DRV8312-C2-KIT](#), [DRV8412-C2-KIT](#), [drv8301-hc-c2-kit](#), [drv8302-hc-c2-kit](#)

[See more blogs](#)

Customer Tags

No Tags are Available for this Part Number

[Create a Tag](#)

Your History

Products You Recently Viewed

[TPS51610EVM-593](#)

[TSC2014EVM-PDK](#)

[TSC2014EVM](#)

[ADS58B19EVM](#)

[TPS720105DRVEVM](#)