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EVAL-M1-1302_05-84D

Overview

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Description:

This Evaluation Kit is a compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by **IRSM505-084DA2 CIPOST™ Micro** and **XMC 1302**. To get a functioning motor system running in less than 1 hour all needed is included. Such as Control Card with debug interface and complete power stage. Motor control software is preloaded or available for download. An easy to use GUI software for parametrization and tuning is available as well.

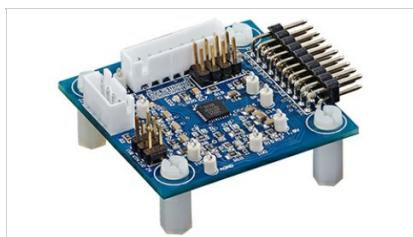
Summary of Features:

- Power stage to drive 3-phase motor
- Standardized **iMOTION™ MADK M1 platform** interface
- 110V Grid
- Rohs compliant

Benefits:

- Easy to design-in – fast time to market
- All in one solution!

Target Applications:



This Evaluation Boards can be combined with our **EVAL-M1-099M-C** control board. Including a debug interface card and powered by an **IRMCK099M** Motor Control IC. In addition a MCE Designer GUI for parametrization and tuning is offered. It is designed for motor drive applications such as fans, pumps, multicopter or aircon.



[EVAL-M1-05-84D - iMOTION™ Modular Application Design Kit](#)

01_00 | Aug 30, 2016
| PDF | 1.1 mb

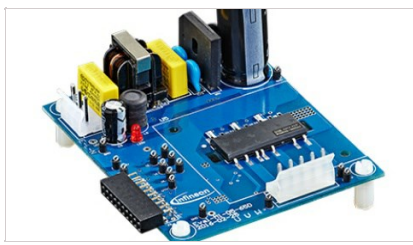


[Eval-M1-1302 - iMOTION™ Modular Application Design Kit](#)

01_00 | Sep 20, 2016
| PDF | 1.68 mb



Typical appearance



Find out more about our evaluation boards for driving 3-phase motors, powered by **IRSM505-065DA2 CIPOS™ Micro** or **IRSM836-045MA CIPOS™ Nano Intelligent Power Modules (IPMs)**. These boards are equipped with a standardized iMOTION™ MADK M1 platform interface and can be controlled with different control boards having the same interface:

EVAL-M1-05-65D (2.6A, 500V)

EVAL-M1-05-84D (7A, 250V)

EVAL-M1-36-45A (4A, 500V)

EVAL-M1-36-84A (7A, 250V)

Parametrics

Parametrics	EVAL-M1-1302_05-84D
Configuration	Equipped with μ C XMC 1302 ARM® Cortex® M0 ; Equipped with IRSM505-065DA2 μ IPM™-DIP ; iMOTION™ MADK complete Kit with control- and power-board
Description	Evaluation Kit as part of iMOTION™ MADK M1-Platform with μ IPM™ DIP (110V)
Family	Motor Driver ; Microcontroller
Input Type	AC
Product Description	This Kits is a compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM505-084DA2 μ IPM™ DIP and XMC 1302
Product Name	EVAL-M1-1302_05-84D
Target Application	Automation ; Consumer ; Industrial ; Motor Control & Drives
Topology	3-Phase Motor
Type	Evaluation Board

Documents

+ Expand all


+ Data Sheets

+ Product Brief



+ Application Notes

+ Presentations

Order

Sales Product Name	EVAL-M1-1302_05-84D
OPN	EVAlM113020584DTObO1
Product Status	active and preferred
Package name	--
Order online	
Completely lead free	
Halogen free	
RoHS compliant	yes
Packing Size	1
Packing Type	BLISTER TRAY
Moisture Level	
Moisture Packing	NON DRY

Boards

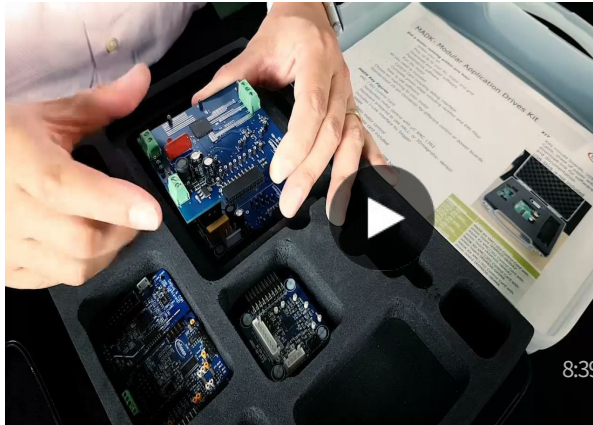
Image	Board ▼▲	Family ▼▲	Description ▼▲	Status ▼▲
	EVAL-M1-05-84D	Motor Driver, Microcontroller	<p>This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM505-084DA2 CIPOS™ Micro</p> <ul style="list-style-type: none"> Equipped with IRSM505-084DA2 CIPOS™ Micro iMOTION™ MADK complete power stage to drive 3-phase motor 	active and preferred
	EVAL-M1-099M-C	iMOTION™ Motor Control ICs	<p>iMOTION™ MADK control card</p> <ul style="list-style-type: none"> Equipped with IRMCK099M iMOTION™ Motor Control IC 	active and preferred
	EVAL-M1-1302	iMOTION™ Motor Control ICs	<p>High Performance Sensorless Motor Control Card</p> <ul style="list-style-type: none"> Equipped with μCXMC 1302 ARM® Cortex® M0 iMOTION™ MADK motor control board 	active and preferred

Tools & Software

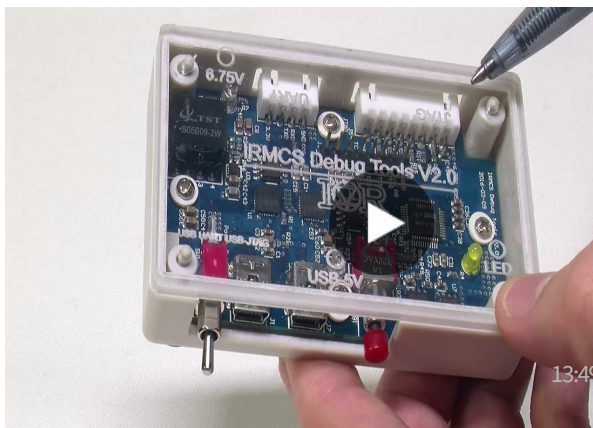
Additional Software

DAVE™ Software Download

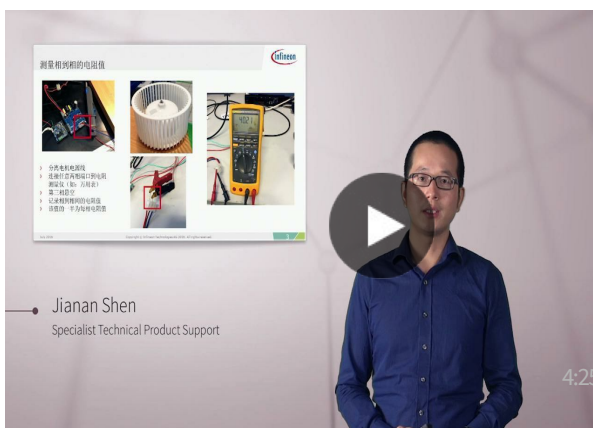
Videos



Introduction: iMOTION™ MADK platform
This video offers an overview of the current available iMOTION™ MADK board Solutions.



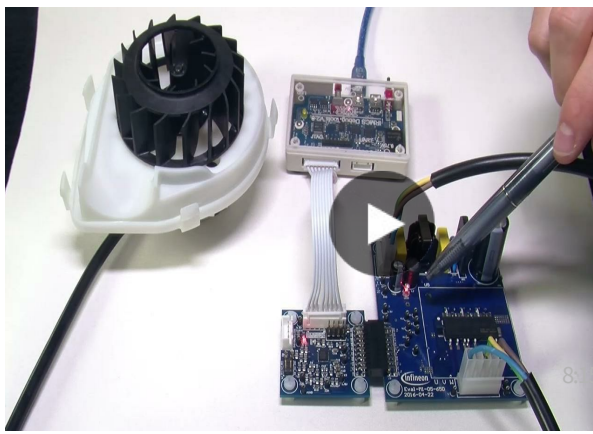
iMOTION™ MADK - 模块化设计平台
该视频概括介绍了目前iMOTION™ MADK平台电机驱动解决方案



iMOTION™ MADK - 如何测量电机参数
该视频演示了如何用简单的方法确定电机主要参数，以用于配置iMOTION™ MADK套件所需电机参数。

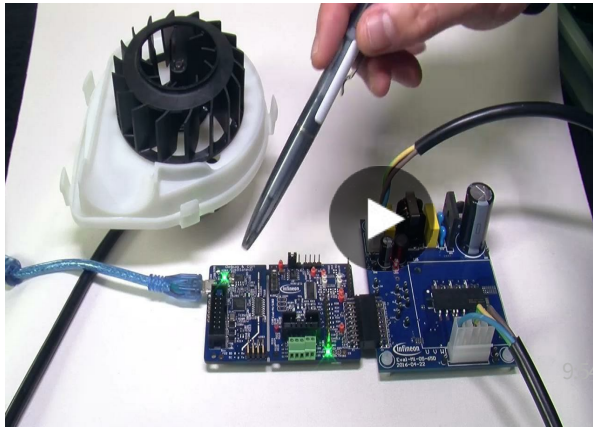


iMOTION™ – Codeless Approach to Variable Speed Motor Control
www.infineon.com/madk
As variable speed motor control expands into areas where simple on/off motor control traditional reigned, Infineon provides a turnkey “No C-Code” variable speed development solution to quickly and easily design motor drive systems. This presentation highlights the technical features & benefits of the solution as well as describes how the straight forward development process works.



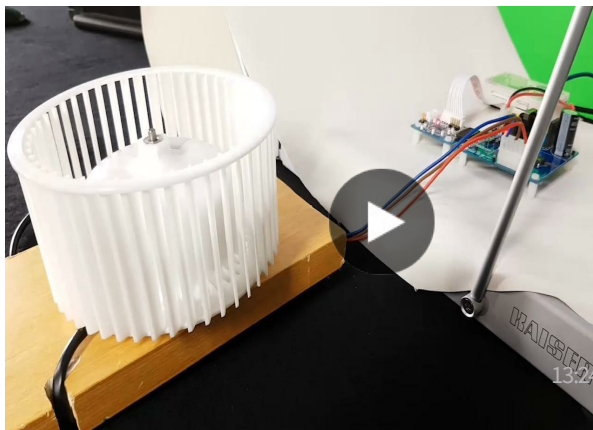
iMOTION™ MADK - 基于Eval-M1-099M控制板的电机驱动演示

该视频演示了如何搭建基于IRMCK099处理器的电机 iMOTION™ MADK评估套件、配置参数并驱动电机。



iMOTION™ MADK - 基于Eval-M1-1302控制板的电机驱动演示

该视频演示了如何搭建基于XMC1302处理器的电机 iMOTION™ MADK评估套件、配置参数并驱动电机。



iMOTION™ - How to measure motor parameters

This videos demonstrates how to set up the system for XMC1302 and IRMCK099 of the iMOTION™ Modular Application Design Kit Platform. It demonstrates how to determine Motor parameters by measurement.

Support

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在线支持

Technical Assistance Center
技术支持中心 (TAC)

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Find an answer to your question

Please state your question (with at least 3 words)

FAQ

1. Digital Application Engineer (DAvE2) [CN] [DE]
2. Digital Application Engineer (DAvE >= Version 4) [CN] [DE]
3. XMC4500 for Machine Control [CN] [DE]
4. SafeTcore Package/Kit by Hitex [CN] [DE]
5. Microcontroller Development Tools - Software - Kit - Board [CN] [DE]
6. Step code on microcontrollers [CN] [DE]

Technical Assistance Center (TAC)

Infineon welcomes your comments and questions.

If you have any questions concerning our products, please fill out the following form. Your inquiry will be sent to the appropriate specialist who will be in touch with you as soon as possible.

You will receive a confirmation E-mail to validate your address in our system. Any attached file to the reply which will help to support your inquiry is highly appreciated.

First Name*	<input type="text"/>
Last Name*	<input type="text"/>
E-Mail*	<input type="text"/>
Phone	<input type="text"/>
Company*	<input type="text"/>
Company website (URL)	<input type="text"/>
Industry*	<input type="text" value="[please select]"/>
Other Industry	<input type="text"/>
Country / Territory*	<input type="text" value="[please select]"/>
Preferred Distributor / Reseller*	<input type="text" value="[please select]"/>
Other Distributor / Reseller	<input type="text"/>
Product Name*	<input type="text" value="EVAL-M1-1302_05-84D"/>
Estimated annual production volume (pieces) per year*	<input type="text" value="[please select]"/>
Please post your technical question as detailed as possible*	<input type="text"/>

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Microcontroller

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			Last Post
	Microcontroller Forum Microcontroller Forum	983 Threads: 2,968 Posts: 9,865	How to start two PWM002 at... by Fethi Today, 03:00 AM
	XMC Forum	983 Threads: 2,122 Posts: 7,620	How to start two PWM002 at... by Fethi Today, 03:00 AM
	XC800 Forum	983 Threads: 74 Posts: 238	Sdcc 3.8.0 rc1 by sph Sep 17th, 2018, 12:51 PM
	XE166/XC2000 Forum	983 Threads: 168 Posts: 500	XE169H ADC Limit Checking by Taha Aug 10th, 2018, 02:56 AM
	TriCore Forum	983 Threads: 448 Posts: 1,187	MCDS Trace Viewer by pcm910 Sep 29th, 2018, 12:46 AM
	32-bit Embedded Power ICs based on ARM Cortex-M Infineon Embedded Power ICs are specifically designed to enable mechatronic motor control solutions for a range of motor control applications, where a small package form factor and a minimum number of external components are essential. Our System-on-Chip solutions offer an unmatched level of integration of all functions required to sense, control and actuate a motor.	983 Threads: 32 Posts: 125	TLE987x bridge driver current... by Lykaon Yesterday, 01:23 AM
			Last Post
	DAVE™ Forum DAVE™ Forum	983 Threads: 1,441 Posts: 5,544	PWM phase shift by Fethi Sep 27th, 2018, 09:42 AM
			Last Post
	NovalithIC/TrilithIC NovalithICTM/TrilithICTM provides a complete low-ohmic-protected half-bridge/H-bridge in a single package. The product can be used as the interface between the microcontroller and the motor, equipped with diagnostic and protection functions. Due to the flexibility of the concept, they can address both DC and BLDC motors.	Threads: 5 Posts: 5	Product Infomation by Jing.N Jul 2nd, 2018, 08:33 AM
	NovalithIC(Automotive)	983 Threads: 2 Posts: 2	Frequently asked questions by Jing.N Jul 2nd, 2018, 08:25 AM
	TrilithIC(Automotive)	983 Threads: 2 Posts: 2	Frequently asked questions by Jing.N Jul 2nd, 2018, 06:53 AM
	IFX007T(Industry)	983 Threads: 1 Posts: 1	Product Infomation by Jing.N Jul 2nd, 2018, 08:33 AM
			Last Post
	POWER MOSFET Infineon's whole range of power MOSFETs and systems enable innovation and performance in your application, like switch mode power supplies (SMPS), computing, motor control and drives, consumer, mobile devices, lighting solutions, automotive and more.	983 Threads: 91 Posts: 208	Alternative to AUIRS20302S... by tiago.santos Sep 20th, 2018, 05:45 AM
			Last Post
	Applications Applications	983 Threads: 49 Posts: 132	Motor Control with... by dagern Sep 14th, 2018, 01:15 AM
	iMOTION™ MADK Platform Complete and scalable system solution for motor drives. Get a Motor running in less than 1 hour with a compact and flexible 3-phase motor drive evaluation platform with controller & IPM, sensorless or optional with sensors.	983 Threads: 17 Posts: 41	Motor Control with... by dagern Sep 14th, 2018, 01:15 AM

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