

EVAL-M1-05-65D

Overview



Description:

This evaluation board is a complete power stage to drive 3-phase motor, powered by **IRSM505-065DA2 CIPOS™ Micro** ([/cms/en/product/power/intelligent-power-modules-ipm/irsm505-065da/](#)). It is equipped with a standardized **iMOTION™ MADK M1 platform** ([/cms/en/product/promopages/madk/](#)) interface. Several measurement points give easy access for standard oscilloscope probes. The featured IRSM505-065DA2 is a 2.6A, 500V **Integrated Power Module (IPM)** ([/cms/en/product/power/intelligent-power-modules-ipm/](#)) designed for advanced appliance motor drive applications such as energy efficient fans and pumps.

Summary of Features:

- power stage to drive 3-phase motor
- Standardized **iMOTION™ MADK M1 platform** ([/cms/en/product/promopages/madk/](#)) interface
- 230V Grid
- Rohs compliant

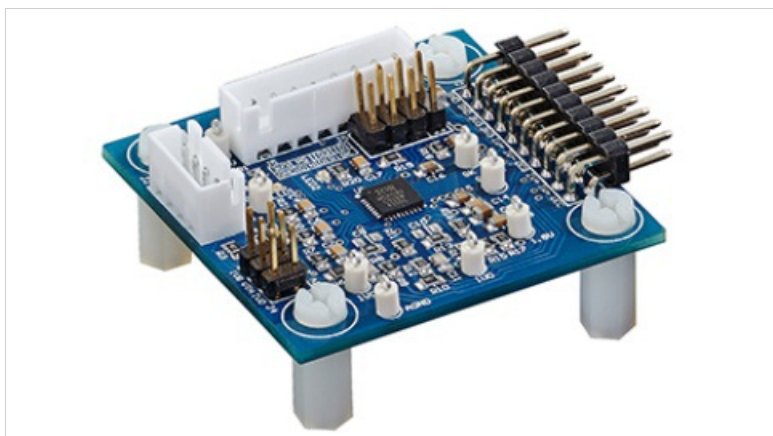
Benefits:

- Easy to design-in – fast time to market
- Same PCB design can address multiple markets due to featured IRSM505-65DA2
- UL certified package and temperature sensor due to featured IRSM505-65DA2

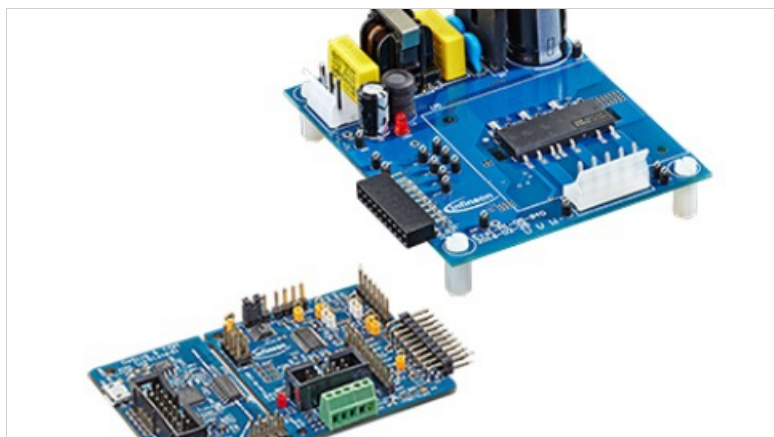
Target Applications:



[\(/cms/productpage- application/drives\)](#)
[\(/cms/productpage- application/aircon\)](#)
[\(/cms/productpage- application/pumps\)](#)



This Evaluation Boards can be combined with our **EVAL-M1-099M-C** (</cms/en/product/evaluation-boards/eval-m1-099m-c/>) control board. Including a debug interface card and powered by an **IRMCK099M** (</cms/en/product/power/motor-control-ics/digital-motor-controller-imotion/irmck099m/>) Motor Control IC. In addition a MCE Designer GUI for parametrization and tunig is offered. It is designed for motor drive applications such as fans, pumps, multicopter or aircon.



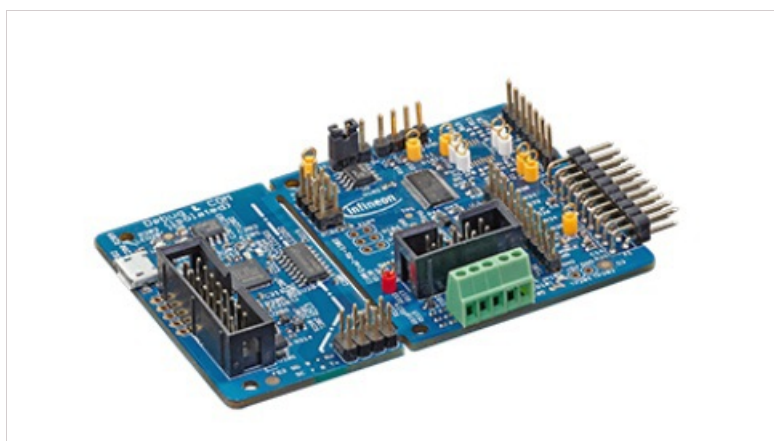
Read more about compact and flexible 3-phase motor drive kits. These system solution kits are powered by various **CIPOS™ Nano IPMs** (</cms/en/product/power/intelligent-power-modules-ipm/>) and **XMC 1302 MCU** (</cms/en/product/channel.html?channel=db3a30433c1a8752013c1aa35a6a0029>). Everything needed to get a functioning motor system running in less than 1 hour is included. Motor control software is preloaded or available for download. An easy to use GUI software for parametrization and tuning is available as well:

EVAL-M1-1302_05-65D (2.6A, 500V) (/cms/en/product/evaluation-boards/eval-m1-1302_05-65d/)

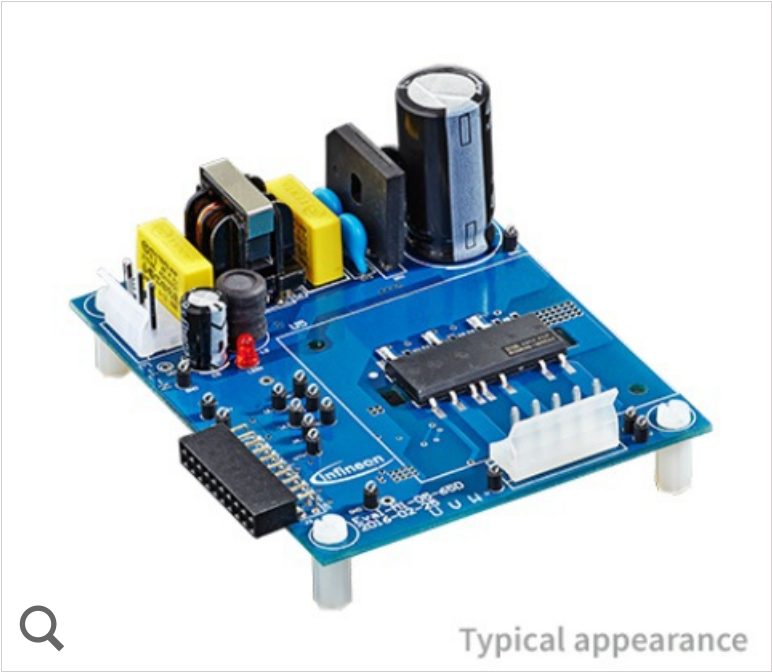
EVAL-M1-1302_05-84D (7A, 250V) (/cms/en/product/evaluation-boards/eval-m1-1302_05-84d/)

EVAL-M1-1302_36-45A (4A, 500V) (/cms/en/product/evaluation-boards/eval-m1-1302_36-45a/)

EVAL-M1-1302_36-84A (7A, 250V) (/cms/en/product/evaluation-boards/eval-m1-1302_36-84a/)



Discover more about our **EVAL-M1-1302** (</cms/en/product/evaluation-boards/eval-m1-1302/>) motor control board powered by **XMC 1302** (</cms/en/product/channel.html?channel=db3a30433c1a8752013c1aa35a6a0029>). It includes an isolated J-Link interface by Segger. The Hardware is prepared to use HALL- or latest innovation of 3D Magnetic Sensor. A complete development suite consisting of DAVE and µC-Probe is provided.




Parametrics

Parametrics	EVAL-M1-05-65D
Configuration	Equipped with IRSM505-065DA2 CIPOS™ Micro iMOTION™ MADK complete power stage to drive 3-phase motor
Description	Evaluation board for CIPOS™ Nano & powerboard for iMOTION™ MADK M1-Platform with CIPOS™ Micro(230V)
Family	Motor Driver Microcontroller
Input Type	AC
Product Description	This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM505-065DA2 CIPOS™ Micro
Product Name	Eval-M1-05-65D
Target Application	Automation Consumer ; Industrial ; Motor Control & Drives
Topology	3-Phase Motor
Type	Evaluation Board


Documents

+ Expand all

+ Data Sheet

-  IRSM505-065 and IRSM515-065 Series (/dgd/Infineon-IRSM505-065_and_IRSM515-065_Series-DS-v02_00-EN.pdf?fileId=5546d462533600a40153567bfeae2882)
- > EN (/dgd/Infineon-IRSM505-065_and_IRSM515-065_Series-DS-v02_00-EN.pdf?fileId=5546d462533600a40153567bfeae2882)
- 02_00 | 2016-10-18 | pdf | 872 KB

+ Product Brief




XMC Wireless Charging (/dgd/Infineon-XMC-wireless-power-controller-PB-v01_00-EN.pdf?fileId=5546d46253f650570154995339cd6ec8)

> EN (/dgd/Infineon-XMC-wireless-power-controller-PB-v01_00-EN.pdf?fileId=5546d46253f650570154995339cd6ec8)

01_00 | 2017-12-21 | pdf | 138 KB

+ Application Notes




EVAL-M1-05-65D - iMOTION™ Modular Application Design Kit (/dgd/Infineon-AN2016-24_EVAL-M1-05-65D-AN-v01_00-EN.pdf?fileId=5546d4625696ed760156da2dccc96f4a)

> EN (/dgd/Infineon-AN2016-24_EVAL-M1-05-65D-AN-v01_00-EN.pdf?fileId=5546d4625696ed760156da2dccc96f4a)

01_00 | 2016-08-30 | pdf | 1 MB

+ Presentations




iMOTION™ MADK - How to Measure Motor Parameters (/dgd/Infineon-How-to-Measure-Motor-Parameters-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d655bd643ed)

> EN (/dgd/Infineon-How-to-Measure-Motor-Parameters-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d655bd643ed)

> CN (/dgd/Infineon-How-to-Measure-Motor-Parameters-PP-v01_00-CN.pdf?fileId=5546d462566bd0c701568cd2e6694248)

01_00 | 2016-08-15 | pdf | 706 KB



Introduction: iMOTION™ Modular Application Design Kit (MADK) Platform (/dgd/Infineon-MADK-the-modular-design-platform-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d6562d343f9)

> EN (/dgd/Infineon-MADK-the-modular-design-platform-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d6562d343f9)

> CN (/dgd/Infineon-MADK-the-modular-design-platform-PP-v01_00-CN.pdf?fileId=5546d462566bd0c701568cd2ef424255)

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Order

Sales Product Name	EVAL-M1-05-65D
OPN	EVALM10565DTOBO1
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

Moisture Packing	NON DRI
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Boards



Image	Board ▼▲	Family ▼▲	Description ▼▲	Status ▼▲
	EVAL-M1-099M-C (/cms/en/product/evaluation-boards/eval-m1-099m-c/)	Microcontroller, Motor Driver	iMOTION™ MADK control card <ul style="list-style-type: none">Equipped with IRMCK099M iMOTION™ Motor Control IC	active and preferred
	EVAL-M1-1302 (/cms/en/product/evaluation-boards/eval-m1-1302/)	Motor Driver, Microcontroller	High Performance Sensorless Motor Control Card <ul style="list-style-type: none">Equipped with µC XMC 1302 ARM® Cortex® M0iMOTION™ MADK motor control board	active and preferred
	EVAL-M1-1302_05-65D (/cms/en/product/evaluation-boards/eval-m1-1302_05-65d/)	Motor Driver, Microcontroller	This Kit is a compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM505-065DA2 µIPM™ DIP and XMC 1302 <ul style="list-style-type: none">Equipped with IRSM505-065DA2 µIPM™-DIPEquipped with µC XMC™ 1302 ARM® Cortex® M0iMOTION™ MADK complete Kit with control- and power-board	active and preferred

Tools & Software



+ Software



99 Series Installer (/dgd/Infineon-99series-kit-mce-installer-SW-v02_02-EN.exe?fileId=5546d46253f65057015437c4a4e44339)
> EN (/dgd/Infineon-99series-kit-mce-installer-SW-v02_02-EN.exe?fileId=5546d46253f65057015437c4a4e44339)
02_02 | 2017-03-16 | exe | 113.5 MB



DAVE4 Project - Eval-M1-1302_05-65D (/dgd/Infineon-DAVE4_Project_Eval-M1-1302_05-65D-SW-v01_01-EN.zip?fileId=5546d46258fc0bc101591aff31d248a0)
> EN (/dgd/Infineon-DAVE4_Project_Eval-M1-1302_05-65D-SW-v01_01-EN.zip?fileId=5546d46258fc0bc101591aff31d248a0)
01_01 | 2016-12-16 | zip | 2.9 MB



Software Package Eval-M1-1302_05-65D (/dgd/Infineon-Software Package Eval-M1-1302_05-65D-SW-v01_01-EN.zip?fileId=5546d46255dd933d0155eddbc3b2763f)
> EN (/dgd/Infineon-Software Package Eval-M1-1302_05-65D-SW-v01_01-EN.zip?fileId=5546d46255dd933d0155eddbc3b2763f)
01_01 | 2016-08-05 | zip | 234 KB

Videos



Introduction: iMOTION™ MADK platform

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

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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Product Name*

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[please select]



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