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EVAL-M1-1302_05-65D

Overview

Description:

This Evaluation Kit is a compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM505-065DA2 CIPOS™ Micro (/cms/en/product/productType.html?productType=5546d462533600a401533d5068500580) and XMC 1302 (/cms/en/product/channel.html?channel=db3a30433c1a8752013c1aa35a6a0029). 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 parametirization and tuning is available as well.

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
- All in one solution!

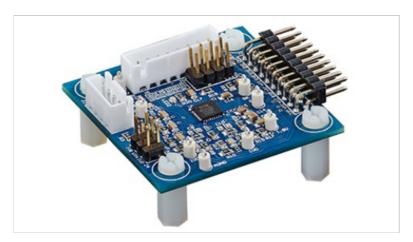
Target Applications:





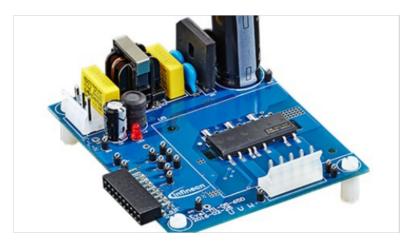


(/cms/productpage-(/cms/productpage-application/drives) application/aircon) application/pumps)



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

MCE Designer GUI for parametrization and tunig is offered. It is designed for motor drive applications such as fans, pumps, multicopter or aircon.



Find out more about our evaluation boards for driving 3-phase motors, powered by

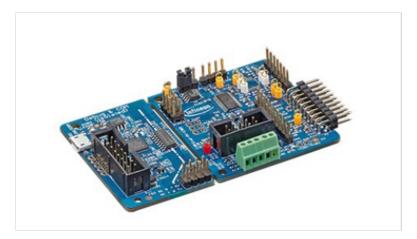
IRSM505-065DA2 CIPOS™ Micro (/cms/en/product/productType.html?productType=5546d462533600a401533d5068500580) or IRSM836-045MA CIPOS™ Nano (/cms/en/product/productType.html?productType=5546d462533600a401533d50ec420685) Intelligent Power Modules (IPMs) (/cms/en/product/channel.html?channel=db3a30431f848401011fa3657ad1349b). 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) (/cms/en/product/productType.html?productType=5546d46253f6505701543d3300114517)

EVAL-M1-05-84D (7A, 250V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f6143172b)

EVAL-M1-36-45A (4A, 500V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f7dec1732)

EVAL-M1-36-84A (7A, 250V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f81a51733)



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 μ C-Probe is provided.



Parametrics



| Parametrics | EVAL-M1-1302_05-65D |
|------------------------|--|
| Configuration | Equipped with μC XMC [™] 1302 ARM® Cortex® M0 Equipped with IRSM505-065DA2 μIPM [™] -DIP; iMOTION [™] MADK complete Kit with control- and power-board |
| Description | Evaluation Kit as part of iMOTION™ MADK M1-Plattform with μIPM™ DIP (230V) |
| Family | Motor Driver Microcontroller |
| Input Type | AC |
| Product Description | 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 |
| Product Name | EVAL-M1-1302_05-65D |
| Target Application | Automation Consumer; Industrial; Motor Control & Drives |
| Topology | 3-Phase Motor |
| Туре | Evaluation Board |

Documents



+ Expand all



♣ Data Sheet



 $IRSM505-065 \ and \ IRSM515-065 \ Series \ (/dgdl/Infineon-IRSM505-065_and_IRSM515-065_Series-DS-v02_00-EN.pdf? \\ fileId=5546d462533600a40153567bfeae2882)$

 $$\ \ \times EN (/dgdl/Infineon-IRSM505-065_and_IRSM515-065_Series-DS-v02_00-EN.pdf? fileId=5546d462533600a40153567b feae 2882) \\ 02_00 \mid 2016-10-18 \mid pdf \mid 872 \ KB \\$

♣ Product Brief



 $\label{lem:lem:main} \begin{tabular}{ll} XMC\ Wireless\ Charging\ (\ /dgdl/Infineon-XMC-wireless-power-controller-PB-v01_00-EN.pdf?\ fileId=5546d46253f650570154995339cd6ec8) \end{tabular}$

> EN (/dgdl/Infineon-XMC-wireless-power-controller-PB-v01_00-EN.pdf?fileId=5546d46253f650570154995339cd6ec8) 01_00 | 2017-12-21 | pdf | 138 KB

→ Getting Started



iMOTION™ MADK Sensorless FOC with XMC™ (/dgdl/Infineon-iMOTION MADK Sensorless FOC with XMC-GS-v01_00-EN.pdf? fileId=5546d46255dd933d0155edee06717683)

> EN (/dgdl/Infineon-iMOTION MADK Sensorless FOC with XMC-GS-v01_00-EN.pdf?fileId=5546d46255dd933d0155edee06717683) 01_00 | 2016-07-15 | pdf | 3.1 MB

♣ Application Notes



EVAL-M1-05-65D - iMOTION™ Modular Application Design Kit (/dgdl/Infineon-AN2016-24_EVAL-M1-05-65D-AN-v01_00-EN.pdf? fileId=5546d4625696ed760156da2dccd96f4a)

> EN (/dgdl/Infineon-AN2016-24_EVAL-M1-05-65D-AN-v01_00-EN.pdf?fileId=5546d4625696ed760156da2dccd96f4a) 01_00 | 2016-08-30 | pdf | 1 MB



Eval-M1-1302 - Control board for iMOTION™ Modular Application Design Kit (/dgdl/Infineon-AN2016-22-Eval-M1-1302 Control board-AN-v01_00-EN.pdf?fileId=5546d46256fb43b3015746b7e9550fb1)

 $$$ EN (/dgdl/Infineon-AN2016-22-Eval-M1-1302\ Control\ board-AN-v01_00-EN.pdf? fileId=5546d46256fb43b3015746b7e9550fb1) $$01_00 \mid 2016-09-20 \mid pdf \mid 1.7\ MB$$$

♣ Presentations



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

- > EN (/dgdl/Infineon-How-to-Measure-Motor-Parameters-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d655bd643ed)
- > CN (/dgdl/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 (/dgdl/Infineon-MADK-the-modular-design-platform-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d6562d343f9)

Order



| Sales Product Name | EVAL-M1-1302_05-65D |
|--------------------|----------------------|
| OPN | EVALM113020565DTOBO1 |
| 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-M1-05-65D (/cms/en/product/evaluation- boards/eval-m1-05-65d/) | Motor Driver, Microcontroller | This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM505-065DA2 CIPOS™ Micro • Equipped with IRSM505-065DA2 CIPOS™ Micro • iMOTION™ MADK complete power stage to drive 3-phase motor | active and preferred |
| No. of the last of | EVAL-M1-099M-C (/cms/en/product/evaluation- boards/eval-m1-099m-c/) | Microcontroller, Motor Driver | iMOTION™ MADK control card • Equipped with IRMCK099M iMOTION™ Motor Control IC | active and preferred |
| No. of the last of | EVAL-M1-1302 (/cms/en/product/evaluation- boards/eval-m1-1302/) | Motor Driver, Microcontroller | High Performance Sensorless Motor Control Card Equipped with μC XMC 1302 ARM® Cortex® M0 iMOTION™ MADK motor control board | active and preferred |
| Not assets | MCETOOLV2 (/cms/en/product/evaluation- boards/mcetoolv2/) | Motor Driver, Microcontroller | Isolated Debugger Tool for configuring, programming and debugging of all IRMCK099, IRMCx100 and RMCx300 series iMOTION™ motor control ICs | active and preferred |

Tools & Software





♣ Software



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



 $\label{lem:decomposition} DAVE4\ Project\ -\ Eval\ -M1-1302_05-65D\ (/dgdl/Infineon\ -DAVE4_Project_Eval\ -M1-1302_05-65D\ -SW-v01_01-EN.zip?\ fileId=5546d46258fc0bc101591aff31d248a0)$

> EN (/dgdl/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 (/dgdl/Infineon-Software Package Eval-M1-1302_05-65D-SW-v01_01-EN.zip? fileId=5546d46255dd933d0155eddbc3b2763f)

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

Additional Software

µC/Probe™ XMC™ Download (https://infineoncommunity.com/uC-Probe-XMC-software-download_ID712)

DAVE™ Software Download (https://infineoncommunity.com/dave-download_ID645)

Videos



Introduction: iMOTION ™ MADK platform

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

| 13:24 |
|-------|
| |

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







(/cms/en/about-infineon/company/contacts/service-center/)

Find an answer to your question

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.

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| Company website (URL) | |
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| Others to deserve | |
| Other Industry | |
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| Country / Territory* | |
| [please select] | ▼ |
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| Preferred Distributor / Reseller* | |
| [please select] | |
| Other Distributor / Reseller | |
| | |
| | |
| Product Name* | |
| EVAL-M1-1302_05-65D | |
| | |
| Estimated annual production volume (pieces) per year* | |
| [please select] | |
| Please post your technical question as detailed as possible* | |
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