MCETOOLV2

Overview

Description:

The MCETOOLV2 is an isolated debugger tool designed to program and debug **IRMCK099 (/cms/en/product/power/motor-control-ics/digital-motor-controller-imotion/irmck099m/)**, IRMCx100 and RMCx300 series **iMOTION™ motor control ICs (/cms/en/product/power/motor-control-ics/digital-motor-controller-imotion/)** on the user's target board (final application board) or on their respective evaluation boards.

The MCETOOLV2 is also required for motor and inverter board parameter configuration and tuning via UART to USB interface. For this functionality, Infineon additionally provides the necessary PC tools MCEWizzard and MCEDesigner, available under **Tools & Software tab (/cms/en/product/evaluation-boards/mcetoolv2/#tools)** (click on "+" to see all available Software packages). These 2 software tools are delivered as a part of the respective Series' Installer package (e.g. "99 Series Installer" for IRMCK099M devices, or "100 Series Installer" for IRMCK1xx or IRMCF1xx devices).

The MCETOOLV2 is required for using any iMOTION™ IRMCKxxx control board of the **iMOTION™ Modular Application Design Kit (MADK) platform (/cms/en/product/promopages/madk/)**. Please check the content of the respective kit on its website to learn if MCETOOL V2 is part of the kit, or it needs to be ordered separately.

IMPORTANT NOTE: MCETOOLV2 is functionally equivalent to MCETOOLV1 which has been obsoleted.

Summary of Features:

- Programming of RAM, Flash and OTP memory for IRMCKxxx and IRMCFxxx devices
- Debugging of embedded 8051 core via standard JTAG interface
- Configuring and Tuning of system and motor parameters via virtual UART
- All interfaces are galvanically isolated
- 3.3 VDC output voltage to target
- Internal generation of OTP programming voltage
- USB interface to PC for power and data
- Ships with all required cables

Benefits:

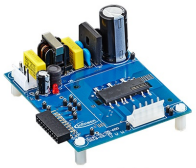
- Easy motor parametrization and tuning
- Fast time to market – No coding required

Target Applications:


(/cms/productpage-application/drives)


(/cms/productpage-application/aircon)


(/cms/productpage-application/pumps)



Typical appearance

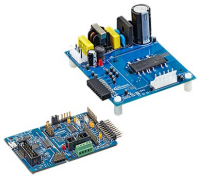
Find out more about our evaluation boards for driving 3-phase motors, powered by **IRSM505-065DA2 CIPOS™ Micro (/cms/en/product/productType.html?productType=5546d462533600a401533d5068500580)** or **IRSM836-045MA CIPOS™ Nano (/cms/en/product/productType.html?productType=5546d462533600a401533d50ec420685) Intelligent Power Modules (IPMs) (/cms/en/product/power/intelligent-power-modules/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)



Typical appearance

(/export/sites/default/media/products/Power_Semiconductors/High_Power_Semiconductors/Product_Page_Pictures/Product_Image_EvM1-1302_05-84D.jpg)

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/channel.html?channel=db3a30431f848401011fa3657ad1349b)** and **XMC 1302 MCU (/cms/en/product/microcontroller/32-bit-industrial-microcontroller-based-on-arm-registered-cortex-registered-m/32-bit-xmc1000-industrial-microcontroller-arm-registered-cortex-registered-m0/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 parametirization and tuning is available as well:

EVAL-M1-1302_05-65D (2.6A, 500V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f6eac172e)

EVAL-M1-1302_05-84D (7A, 250V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f728f172f)

EVAL-M1-1302_36-45A (4A, 500V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f765d1730)

EVAL-M1-1302_36-84A (7A, 250V) (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f7a241731)



Typical appearance

(/export/sites/default/media/products/Power_Semiconductors/High_Power_Semiconductors/Product_Page_Pictures/Product_Image_EvM1-1302.jpg)

Discover more about our **EVAL-M1-1302 (/cms/en/product/productType.html?productType=5546d46253f6505701544c6f68e3172d)**

motor control board powered by
XMC 1302 (/cms/en/product/microcontroller/32-bit-industrial-microcontroller-based-on-arm-registered-cortex-registered-m/32-bit-xmc1000-industrial-microcontroller-arm-registered-cortex-registered-m0/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	MCETOOLV2
Description	Isolated Debugger Tool for configuring, programming and debugging of all IRMCK099, IRMCx100 and RMCx300 series iMOTION™ motor control ICs
Family	Motor Driver Microcontroller
Input Type	AC
Product Description	Isolated Debugger Tool for configuring, programming and debugging of all IRMCK099, IRMCx100 and RMCx300 series iMOTION™ motor control ICs
Product Name	Eval-M1-05-65D
Target Application	Automation Consumer ; Industrial ; Motor Control & Drives
Topology	3-Phase Motor
Type	Evaluation Board

Documents

+ Expand all

Product Brief

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

+ Application Notes

MCETOOLV2 User Manual NEW (/dgdl/Infineon-2017-01 MCETOOLV2 User Manual-AN-v01_04-EN.pdf?fileId=5546d4625e5ce62d015e60ca0d9540d6)
› EN (/dgdl/Infineon-2017-01 MCETOOLV2 User Manual-AN-v01_04-EN.pdf?fileId=5546d4625e5ce62d015e60ca0d9540d6)
01_04 | 2017-07-27 | pdf | 1.3 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)
› EN (/dgdl/Infineon-MADK-the-modular-design-platform-PP-v01_00-EN.pdf?fileId=5546d462566bd0c701568d6562d343f9)
› CN (/dgdl/Infineon-MADK-the-modular-design-platform-PP-v01_00-CN.pdf?fileId=5546d462566bd0c701568cd2ef424255)
01_00 | 2016-08-15 | pdf | 888 KB

Order

Sales Product Name	**MCETOOLV2**
OPN	MCETOOLV2
Product Status	active and preferred
Package name	--
Order online	
Completely lead free	
Halogen free	
RoHS compliant	yes
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

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 • Equipped with IRMCK099M iMOTION™ Motor Control IC	active and preferred

Tools & Software

Software

100 Series Installer (/dgdl/Infineon-100serieskitmceinstaller-SW-v03_05-EN.exe?fileId=5546d46253f65057015437c4ad56433c)
› EN (/dgdl/Infineon-100serieskitmceinstaller-SW-v03_05-EN.exe?fileId=5546d46253f65057015437c4ad56433c)
03_05 | 2016-08-26 | exe | 123.4 MB

143 Servo Installer (/dgdl/Infineon-servokitmceinstaller-SW-v01_02-EN.exe?fileId=5546d46253f65057015437c49ec94336)
› EN (/dgdl/Infineon-servokitmceinstaller-SW-v01_02-EN.exe?fileId=5546d46253f65057015437c49ec94336)
01_02 | 2016-04-21 | exe | 50 MB

300 Series Installer (/dgdl/Infineon-300seriesmceinstavller-SW-v01_04-EN.exe?fileId=5546d46253f65057015437c498254331)
› EN (/dgdl/Infineon-300seriesmceinstavller-SW-v01_04-EN.exe?fileId=5546d46253f65057015437c498254331)
01_04 | 2016-06-07 | exe | 55.3 MB

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

Videos

iMOTION™ - How to measure motor parameters

13:24

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.

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.

Introduction: iMOTION™ MADK platform

8:39

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

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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*

Last Name*

E-Mail*

Phone

Company*

Company website (URL)

Industry*

[please select]

[please select]

Other Industry

Country / Territory*

[please select]

Preferred Distributor / Reseller*

[please select]

Other Distributor / Reseller

Product Name*

MCETOOLV2

Estimated annual production volume (pieces) per year*

[please select]

Please post your technical question as detailed as possible*

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