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EVAL-M1-CM610N3

Overview



Description:

This evaluation board is a complete power stage, powered by

CIPOS™ Mini IKCM10H60GA (/cms/en/product/power/intelligent-power-modules-ipm/ikcm10h60ga/). The board is purposed to drive 3-phase motors up to 750W. It is equipped with MADK™ (/cms/en/product/promopages/madk/) M1 20 pin interface connector. Therefore, it can be used with Eval-M1-1302 (/cms/en/product/evaluation-boards/eval-m1-1302/) or

Eval-M1-099M-C (/cms/en/product/evaluation-boards/eval-m1-099m-c/) control boards. In combination with these boards, it is a complete set of hardware for a motor control system.

Summary of Features:

- Power stage to drive 3-phase motor
- 600V blocking voltage
- 10A installed chip current
- 750W output power with passive cooling
- Testpads with hooks to attach standart oscilloscope probes
- Standard MADK™ M1 interface connector

Benefits:

- Evaluate IKCM10H60GA (/cms/en/product/power/intelligent-power-modules-ipm/ikcm10h60ga/) module for your application
- Get your motor running within one hour in combination with Eval-M1-1302 (/cms/en/product/evaluation-boards/eval-m1-1302/) or Eval-M1-099M-C (/cms/en/product/evaluation-boards/eval-m1-099m-c/)
- Start to learn more about motor control in low voltage domain

Target Applications:



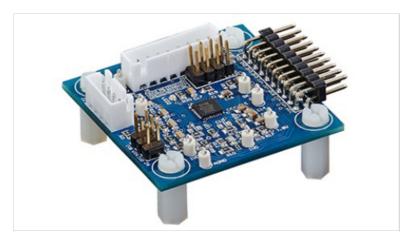






(/cms/productpage- (/cms/productpage- (/cms/productpage- application/battery- application/power- application/small- application/multicopters)

powered) tools) kitchen-appliances)



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.



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.



AN2017-09 - Eval-M1-CM610N3 iMOTION $^{\rm TM}$ Modular Application Design Kit 01_00 | May 22, 2017 | PDF | 726 kb

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Parametrics



Parametrics	EVAL-M1-CM610N3
Configuration	powered by CIPOS™ Mini IKCM10H60GA purposed to 3-phase motors up to 750W
Dimensions	120mm*120mm
Family	Motor Driver Microcontroller
Input Type	AC
Interfaces	MADK-M1 20pin interface connector
P _{out} max	750.0 W
Product Description	The evaluation board is based on the IKCM10H60GA from Infineon with power ratings of 600V/10A. In combination with control-boards equipped with the M1 20pin interface connector, like EVAL-M1-1302 or EVAL-M1-099M
Product Name	EVAL-M1-CM610N3
Qualification	Industrial
Supply Voltage max	265.0 V
Target Application	Commercial, construction and agricultural vehicles (CAV) Consumer ; Motor Control & Drives
Topology	3-Phase Motor
Туре	Evaluation Board

Documents





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



AN2017-09 - Eval-M1-CM610N3 iMOTION™ Modular Application Design Kit (/dgdl/Infineon-AN2017-09_Eval-M1-CM610N3-ANv01_00-EN.pdf?fileId=5546d4625c167129015c52c1c3e17c4a)

> EN (/dgdl/Infineon-AN2017-09_Eval-M1-CM610N3-AN-v01_00-EN.pdf?fileId=5546d4625c167129015c52c1c3e17c4a) 01_00 | 2017-05-22 | pdf | 726 KB



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	EVAL-M1-CM610N3
OPN	EVALM1CM610N3TOBO1
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

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

8:39

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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Last Name*
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Сопрану
Company website (URL)
Industry*
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Ohlo ar la divetira
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Country / Territory*
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Preferred Distributor / Reseller*
[please select]
Other Distributor / Reseller
Product Name*
EVAL-M1-CM610N3
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