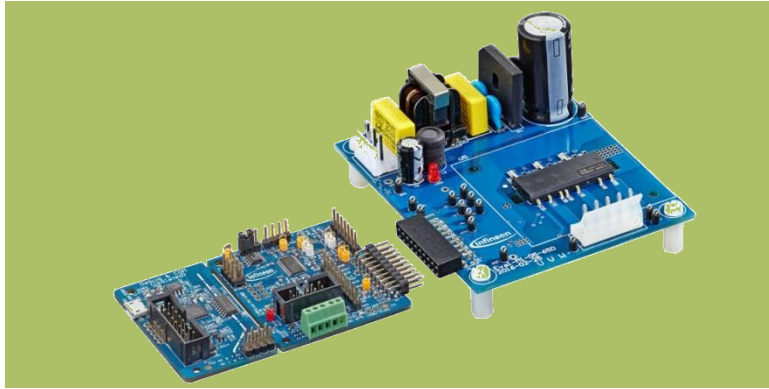


iMOTION™

Modular Application Design Kit (MADK) Platform

June 2016





- **Compact and modular 3-phase motor drive** system solution platform up to 300W with scalable controller and IPM inverter board options
- Designed for **sensorless or sensored** motor control
- **Spin your motor in less than 1 hour** thanks to provided motor control software and easy-to-use GUI for parametrization and tuning

› **XMC™ 1302 Control Card**

- Based on XMC1302 ARM® Cortex®-M0 MCU enabling sensed and sensorless motor control
- Control card supports HALL or latest innovation of 3D Magnetic Sensor
- Includes J-Link debug interface by Segger
- µC Probe-based GUI for parametrization and tuning

› **IRMCK 099M**

- Motion control ASIC for Sensorless motor control
- Debug interface card included
- MCE Designer GUI for parametrization and tuning

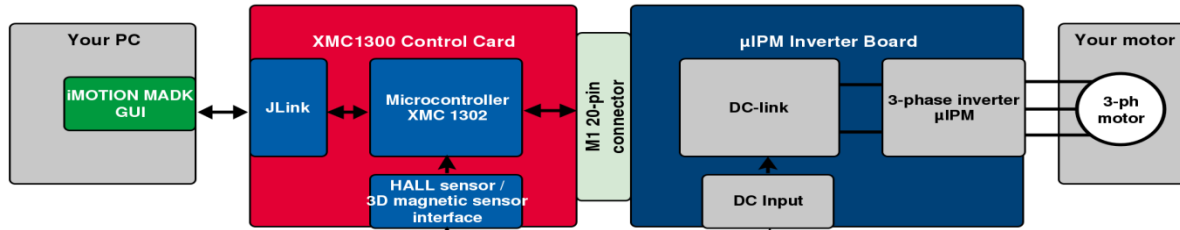
› **µIPM™ (12x12mm) IRSM836 Series or µIPM™-DIP IRSM505 Series inverter boards**

- 2 different MOSFET variants supporting 230V or 110V mains
- All boards support 3-phase motor drive

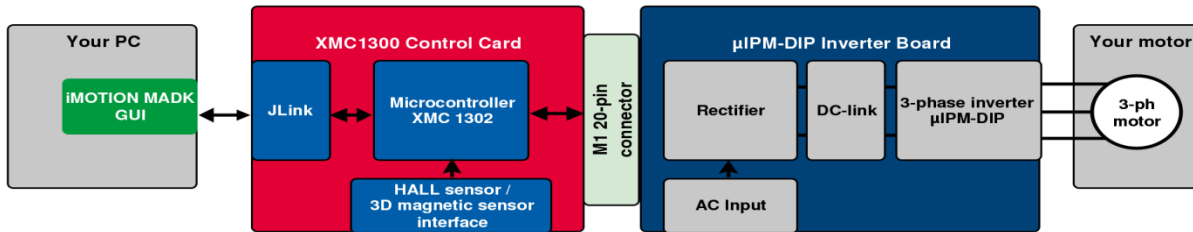
› Kits and individual boards available soon at www.infineon.com/MADK and our Distribution partners worldwide

› New inverter and controller boards will be released on the regular basis

iMOTION™ MADK with XMC™ System and software overview



IRSM836-045MA/IRSM836-084MA μIPM based system block diagram

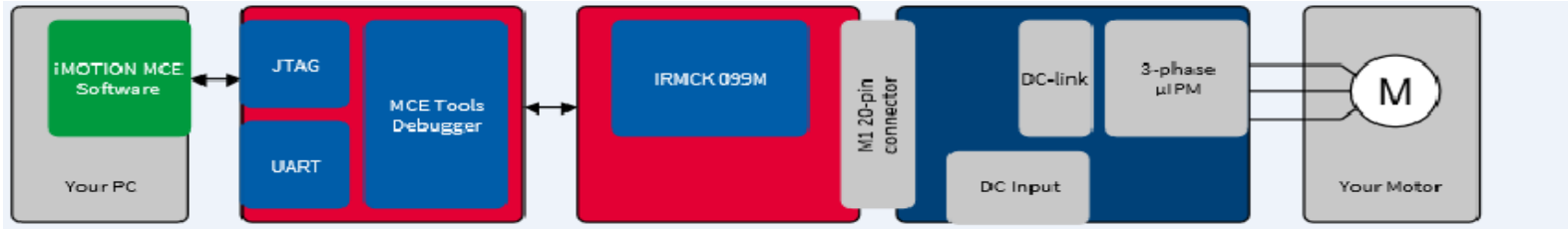


IRSM505-065DA2/IRSM505-084DA2 μIPM-DIP based system block diagram

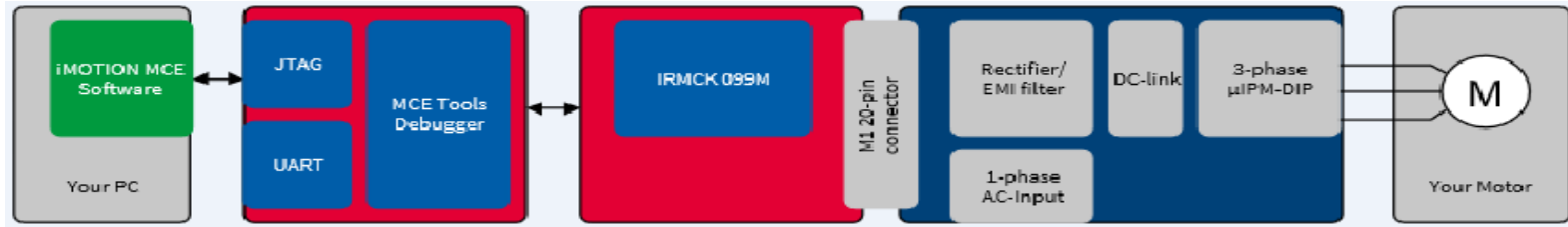
- › Sensorless FOC firmware preloaded or available for download on the web
- › Easy to use μC-Probe based GUI for parametrization and tuning
- › Easy integration of tuned firmware into DAVE™ project
- › Further application software development can be implemented via Dave™, Infineon's free-of-charge IDE, or with major ARM® IDEs, like Keil, IAR, Atollic

iMOTION™ MADK with IRMCK099M

System and software overview



IRSM836-045MA/IRSM836-084MA μIPM based system block diagram



IRSM505-065DA2/IRSM505-084DA2 μIPM-DIP based system block diagram

- › Easy to parametrize motor control IC
- › Debug interface included with every IRMCK099M board
 - JTAG and UART interface option
- › Easy to use MCE Designer GUI to set and analyze control parameters

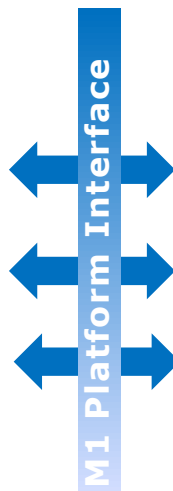
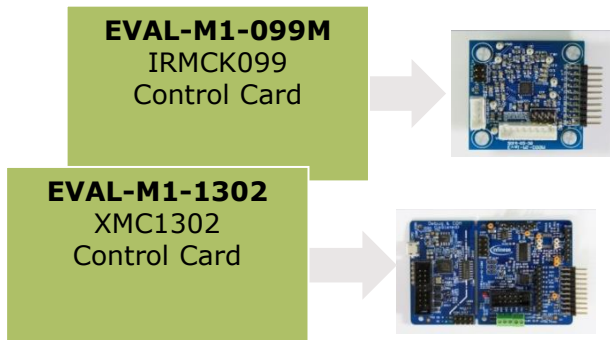
iMOTION™ MADK

Available Kits and Boards Overview

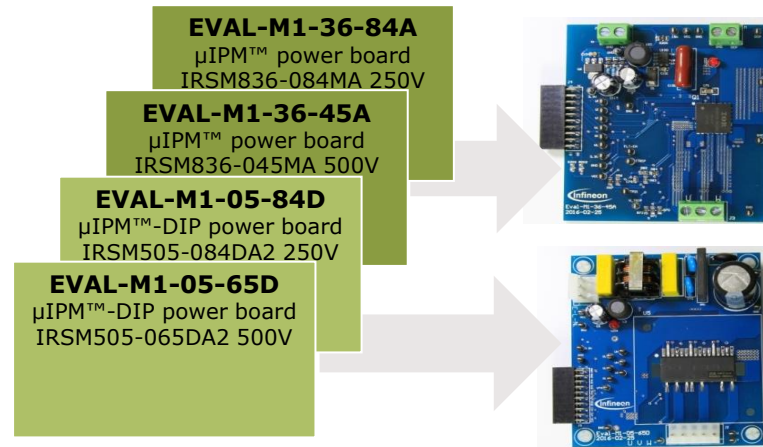


Individual Boards

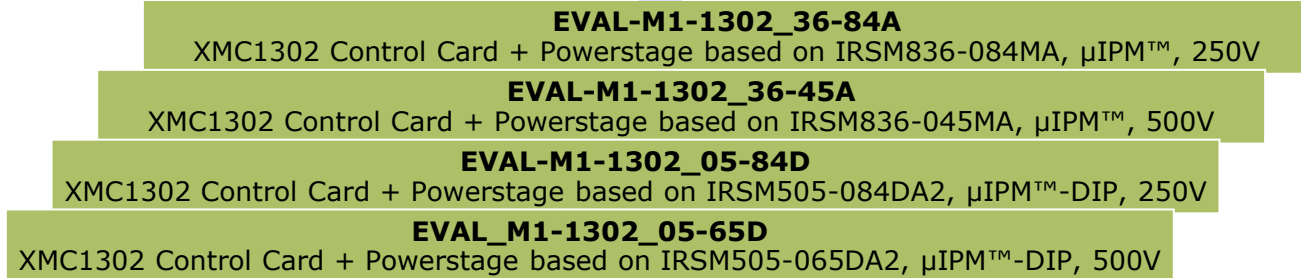
Controller Boards



Inverter Boards



Kits



More iMOTION™ MADK Controller and Inverter boards coming soon...

Ordering Info

Sales Name	OPN	SP Nummer
Eval-M1-05-65D	EVALM10565DTOBO1	SP001591474
Eval-M1-05-84D	EVALM10584DTOBO1	SP001591850
Eval-M1-099M	EVALM1099MTOBO1	SP001591856
Eval-M1-1302	EVALM11302TOBO1	SP001591894
Eval-M1-1302_05-65D	EVALM113020565DTOBO1	SP001591902
Eval-M1-1302_05-84D	EVALM113020584DTOBO1	SP001591814
Eval-M1-1302_36-45A	EVALM113023645ATOBO1	SP001592034
Eval-M1-1302_36-84A	EVALM113023684ATOBO1	SP001592044
Eval-M1-36-45A	EVALM13645ATOBO1	SP001592052
Eval-M1-36-84A	EVALM13684ATOBO1	SP001592062

› Available June 2016

Technical Support for iMOTION™ MADK Platform

Infineon Support Center

Infineon Hotline - Get connected with the answers! Wherever, Whenever

We offer competent Service in English, German and Mandarin, available 24 / 7

Our global connection service goes way beyond standard switchboard services

by offering qualified help either immediately on the phone, by > [E-mail](#) or on > [chat](#).

Top countries

Germany	0800 951 951 951 (German/English)
China, Mainland	4001 200 951 (Mandarin/English)
USA	1 866 951 9519 (English/German)
India	000 800 4402 951 (English)
Direct Access	+49 89 234 65555;  * (German/English)

* interconnection fee

International Service Centers

International toll-free 0800 service

00** 800 951 951 951



**向英飞凌提问
答案一问便知**

英飞凌采用统一的免费热线号码 0800/4001 为您提供 7×24 小时英文、
德文及中文普通话服务。
通过提供优质专业的电话支持，我们的全球连接服务远远超越了传统的
人工总机服务方式。

中国大陆 (中文普通话/英文)4001 200 951
德国 (德文/英文)0800 951 951 951
美国 (英文/德文)1-866 951 9519
其他国家 (英文/德文)00* 800 951 951 951
直接方式 (标准资费, 德文/英文)+49 89 234 - 0

* 请注意：有些国家可能会要求您拨打其特殊号码“00”来访问此国际号码。请访问 www.infineon.com/service 查看您在所在国家的相关信息。

www.infineon.com

<http://www.infineon.com/cms/en/about-infineon/company/contacts/support>



Part of your life. Part of tomorrow.

