

Product Brief

# iMOTION™ IMC100

## IC

iMOTION™ IMC100 가 IC

IMC100 (PMSM)

MCE(Motion Control Engine)  
FOC(field oriented control)

MCEWizard MCEDesigner  
MCE 가

IMC100

MCU 가 PFC

IMC100 PFC IEC 60335(' B')

IMC100 (functional safety) 가

PMSM FOC  
가 가

>

-

-

> BOM

- ADC

- FOC

( )

-

>

>

(MCE 2.0)

-

- /

- PFC

- IEC 60335 ('Class B')

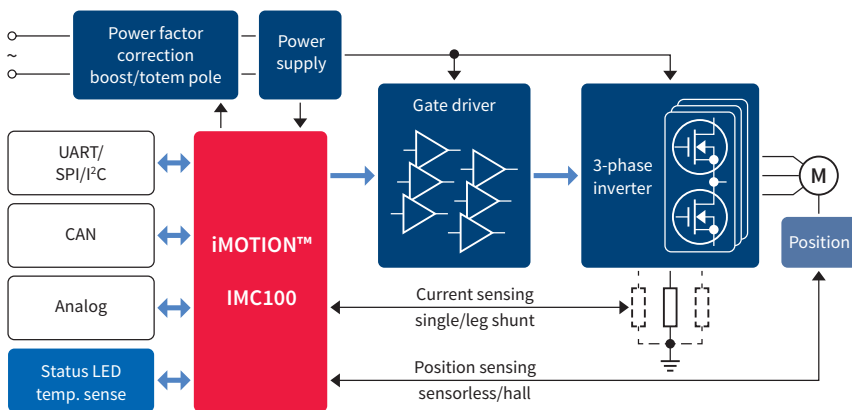
>

>

> 가

>

> PMSM



# iMOTION™ IMC100

## IC

MCEWizard

가

IMC100

가

MCEDesigner

> UART, SPI, I<sup>2</sup>C,

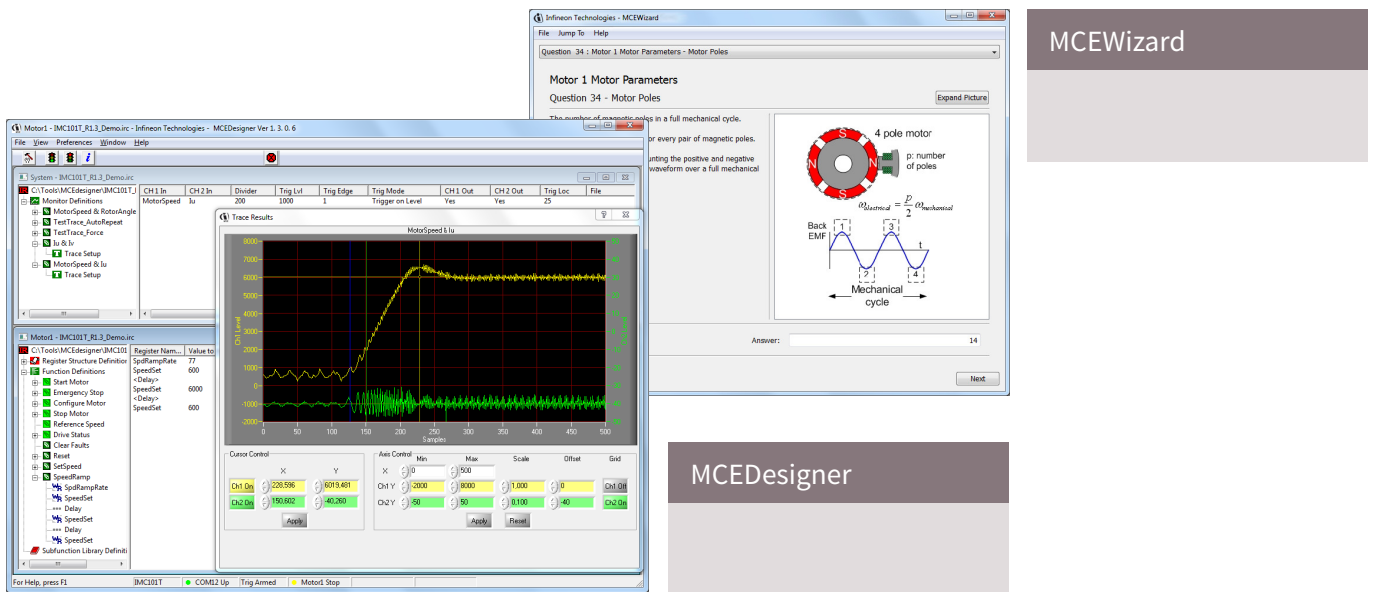
, CAN

IMC100

MCE

LED

IO



Product	Package	Application	Position sensing	PFC	Communication
IMC101T-T038	TSSOP-38	Single motor	Sensorless, hall switch/ hall elements	-	UART, I <sup>2</sup> C, SPI
IMC101T-Q048	VQFN-48	Single motor	Sensorless, hall switch/ hall elements	-	UART, I <sup>2</sup> C, SPI
IMC101T-F048	TQFP-48	Single motor	Sensorless, hall switch/ hall elements	-	UART, I <sup>2</sup> C, SPI
IMC101T-F064	LQFP-64	Single motor	Sensorless, hall switch/ hall elements	-	UART, I <sup>2</sup> C, SPI
IMC102T-F048	TQFP-48	Single motor + PFC	Sensorless, hall switch/ hall elements	boost, totem pole	UART, I <sup>2</sup> C, SPI
IMC102T-F064	LQFP-64	Single motor + PFC	Sensorless, hall switch/ hall elements	boost, totem pole	UART, I <sup>2</sup> C, SPI

Published by  
Infineon Technologies AG  
81726 Munich, Germany

© 2017 Infineon Technologies AG.  
All Rights Reserved.

**Please note!**

THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY AND ANY INFORMATION GIVEN HEREIN SHALL IN NO EVENT BE REGARDED AS A WARRANTY, GUARANTEE OR DESCRIPTION OF ANY FUNCTIONALITY, CONDITIONS AND/OR QUALITY OF OUR PRODUCTS OR ANY SUITABILITY FOR A PARTICULAR PURPOSE. WITH REGARD TO THE TECHNICAL SPECIFICATIONS OF OUR PRODUCTS, WE KINDLY ASK YOU TO REFER TO THE RELEVANT PRODUCT DATA SHEETS PROVIDED BY US. OUR CUSTOMERS AND THEIR TECHNICAL DEPARTMENTS ARE REQUIRED TO EVALUATE THE SUITABILITY OF OUR PRODUCTS FOR THE INTENDED APPLICATION.

WE RESERVE THE RIGHT TO CHANGE THIS DOCUMENT AND/OR THE INFORMATION GIVEN HEREIN AT ANY TIME.

**Additional information**

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office ([www.infineon.com](http://www.infineon.com)).

**Warnings**

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.