

KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit release notes

About this document

Scope and purpose

Thank you for your interest in the PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit. This document lists the kit contents, installation requirements, kit documentation, limitations and known issues.

Intended audience

This document is intended for KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit users. This board is intended to be used under laboratory conditions.



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1 Release contents

1 Release contents

1.1 Kit contents

The KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation kit box includes the following components:

1. KIT_PSC3M5_CC2 Motor Control card
2. Drive adapter card
3. KITMOTORDC250W24VTOBO1 power board
4. USB Type-A to USB Type-C cable
5. Nanotec DB42S03 or DB42M03 24V BLDC motor
6. 24 V/1 A AC-DC adapter
7. Quick start guide

2 Kit information

2 Kit information

For information related to the kit, see the [KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit](#) webpage.

2.1 Software and tools

To utilize the code examples in this kit, ModusToolbox™ version 3.2 or later is required. This is available on the [ModusToolbox™ software webpage](#). For more details, see the kit user guide.

Install J-Link software version v7.96d or later, along with the USB driver for the selected J-Link device.

2.2 Code examples and collaterals

The kit [webpage](#) contains both the documents and hardware files. Additionally, the code examples are available in the [Infineon GitHub repository](#).

2.3 Installation

The kit guide, available on the webpage, provides all the necessary software installation instructions. For more information, see the [KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit](#) webpage.

2.4 Kit revision

This is the initial revision (Rev. **) of the KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit.

2.5 Limitations and known issues

The limitations and known issues in this revision (Rev **) of the KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit are as follows:

1. After programming/flashing the control card MCU using the ModusToolbox™ Motor Suite GUI, the MCU needs to be reset by pressing the reset button (SW1)
2. The control card is configured to operate with 5 V analog reference and digital logic power boards. However, to ensure compatibility with 3.3 V analog reference and digital logic power boards, the following components must be removed:
 - **For motor 1:** R105, R117, R118, R119 R37 and R39
 - **For motor 2:** R123, R124, R125, R136, R34 and R36
 - **For PFC/motor 3:** R137, R138, R139 and R147
3. Note that the control card's SPI and I2C interfaces are only compatible with 3.3 V logic smart gate drive power boards

2.6 Documentation

The following documents are available on the kit [webpage](#):

- KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit user guide
- KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit quick start guide
- KIT_PSC3M5_MC1 PSOC™ Control C3M5 Complete System Motor Control Evaluation Kit release notes

2 Kit information

2.7 Technical support

For assistance or product-related queries, contact [Infineon Support](#) or post your queries on the [Infineon Developer Community](#) platform.

2.8 Additional information

- For more information on the PSOC™ Control C3 MCU, including associated documentation, and software, see [PSOC™ Control C3](#) webpage
- To know more about the functionality and releases of ModusToolbox™, see the [ModusToolbox™ software](#) webpage
- For a list of trainings on ModusToolbox™, see [ModusToolbox™ software training](#)

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Do you have a question about any aspect of this document?

Email: erratum@infineon.com

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