XMC7200 MC1 Complete System Motor kit release notes

About this document

Scope and purpose

Thank you for your interest in the XMC7200 Complete System Motor Control kit. This document lists the kit contents, installation requirements, kit documentation, limitations, and known issues.

Intended audience

This document is intended for KIT_XMC7200_MC1. This board is intended to be used under laboratory conditions.

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1 Release contents

1.1 Kit contents

The KIT_XMC7200_MC1 Complete System Motor Control Kit box includes the following components:

1. KIT_XMC7200_DC_V1 Motor Drive card
2. Drive Adapter card
3. KITMOTORDC250W24VTOBO1 Power board
4. USB-A to USB-C cable
5. Screwdriver
6. Nanotec DB42S03 or DB42M03 24V BLDC motor
7. 24 V/1 A AC-DC adapter
8. Quick start guide

2 Kit information

For information related to the kit, see the KIT_XMC7200_MC1 Complete System Motor Control Kit webpage.

2.1 Software and tools

To utilize the code examples in this kit, ModusToolbox™ version 3.3 or later is required. This is available on the ModusToolbox™ software webpage. For more details, see the kit user guide at KIT_XMC7200_MC1.

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_XMC7200_MC1 Complete System Motor Control Kit webpage.

2.4 Kit revision

This is the initial revision (Rev. **) of the KIT_XMC7200_MC1 Complete System Motor Control Kit.

2.5 Limitations and known issues

The limitations and known issues in this revision (Rev **) of the KIT_XMC7200_MC1 Complete System Motor Control Evaluation Kit are as follows:

1. If any parameter is outside valid range while performing 'Write Parameters' to Flash operation from GUI, the parameters are not updated in Flash but the operation may still show 'Parameters are written to flash memory successfully'
2. Limitations when migrating the project to IAR Embedded Workbench:
   a. The migrated IAR project includes library files for all three control methods. User needs to manually remove the library files for the other control methods. For example: when migrating the RFO project, only libcy_motor_ctrl_rfo.a should be present in `mtb_shared\motor-ctrl-lib\release-v1.8.0\OperationalCode\COMPONENT_CAT1C\TOOLCHAIN_IAR\`

      User needs to manually remove libcy_motor_ctrl_sfo.a and libcy_motor_ctrl_tbc.a files before compiling the project
   b. The MOTOR_DEMO code example is built with warnings in IAR
   c. When using the IAR generated hex and elf files, 'Write Parameters' to Flash operation from GUI does not update the parameters to Flash

2.6 Documentation

The following kit documents are available on the kit webpage.

- KIT_XMC7200_MC1 Complete System Motor Control Kit user guide
- KIT_XMC7200_MC1 Complete System Motor Control Kit quick start guide
- KIT_XMC7200_MC1 Complete System Motor Control Kit release notes

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 XMC7200 MCU, including associated documentation, and software, see XMC7200 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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