

XMC7200 Complete System Motor Control Kit

Evaluate and develop motor control applications using the XMC7200 microcontroller

The KIT_XMC7200_MC1 kit is a complete motor control system, designed to demonstrate the advanced motor control capabilities of the [XMC7200 microcontroller](#), providing a complete out-of-the-box experience.

The kit includes everything needed to focus on developing the application without worrying about component sourcing. It includes a motor, power board, [drive card](#) and power supply. Furthermore, to accelerate application development, dedicated code examples are included, showcasing the microcontroller's motor control features.

Infineon's XMC7200 Motor Drive Card is the core of the motor control system. It is powered by XMC7200D, the high-end version of the XMC7000 family. XMC7200D is a true programmable embedded system-on chip, integrating two 350-MHz Arm® Cortex®-M7 as the primary application processors, a 100-MHz Arm® Cortex®-M0+ that supports low-power operations, up to 8-MB flash and 1-MB SRAM, Gigabit Ethernet, Controller Area Network Flexible Data-Rate (CAN FD), Secure Digital Host Controller (SDHC) supporting SD/SDIO/eMMC interfaces, programmable analog and digital peripherals that allow faster time-to-market.

The ModusToolbox™ Motor Suite supports various boards and is used to develop and tune motor control applications. Motor Suite is a set of tools that enables developers to spin motors and optimize systems easily and quickly, its GUI supports developers in each step – parameterization, oscilloscope tracing, and a dashboard for system visualization. The XMC7200 Complete System Motor Control Kit makes full use of the ModusToolbox™ Motor Suite, including a high-performance library for motor control.

For more details, see [AN234334 - Getting started with XMC7000 MCU on ModusToolbox™ software](#) application note that aids in creating a customized design using the Eclipse IDE for ModusToolbox™ software.

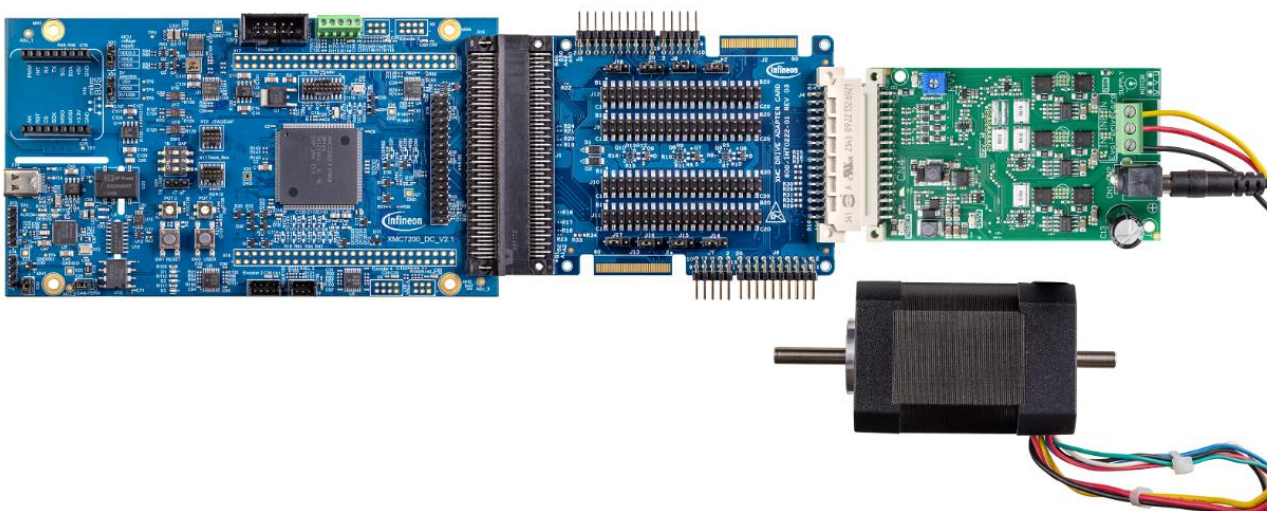
For more Information visit [XMC7200 Complete System Motor Control Kit product page](#).

Key contents

- XMC7200 drive card
- Power board_250W_24V
- Adapter board
- Power supply
- Nanotec motor (DB42M03)
- USB C to USB A 2.0 cable

Key benefits

- Complete Out-of-the-box experience
- "Real life" motor control use cases
- Ease of use with less complexity
- Galvanic isolation protection
- Precise positioning of motor axis
- Ability to remotely access the kit
- Multi-connectivity enablement
- Provision for adaptor board
- Maximum design flexibility
- Different power supply options
- Code examples showcasing motor control capabilities



PRODUCT BRIEF

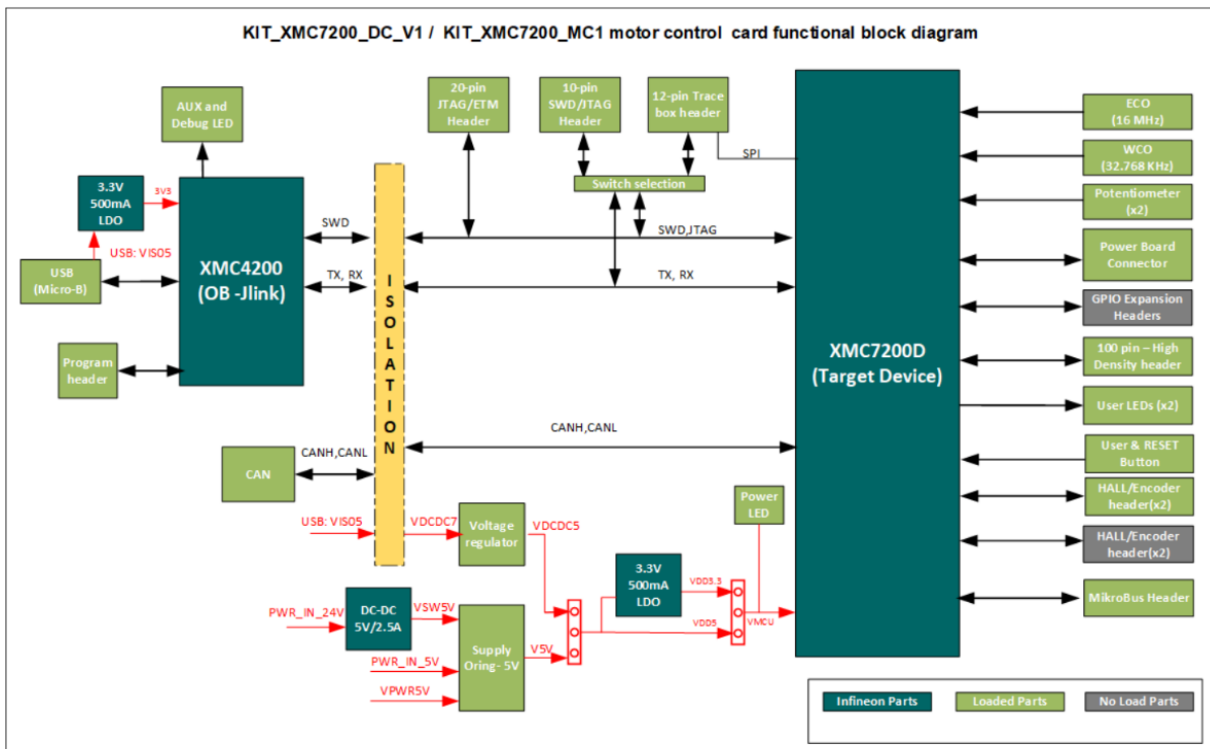
Key Applications

Industrial Motor Control	Servo drives General purpose drives Robotics Multicopter Light electric vehicles
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Ordering Part Numbers

PN	CPU Core	Max CPU Speed	Package
KIT_XMC7200_MC1 / SP006041410 KITXMC7200MC1TOBO1	Arm® Cortex®-M7	350 MHz	Kit

Block Diagram



For further assistance go to <https://www.infineon.com/cms/en/about-infineon/company/contacts/support/>.
 Visit community.infineon.com to ask questions in the Infineon developer community.



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