

ModusToolbox™ Motor Suite

Seamless interface to enable efficient and easy to use motor control applications

ModusToolbox™ Motor Suite delivers a seamless graphical user interface (GUI) to configure and monitor motor control and smart gate driver parameters for various boards and kits featuring Infineon’s motor control solutions.

Its versatility across motor types streamlines development and testing, while parameter monitoring provides valuable insights to accelerate prototyping and optimization.

This comprehensive solution empowers developers to bring high-performance motor control applications to market efficiently.

The Motor Suite GUI is designed to configure, tune and test the motor control applications on the following boards and kits:

- XMC7200 Motor Drive Card (KIT_XMC7200_DC_V1)
- XMC7200 Complete System Motor Control Kit (KIT_XMC7200_MC1)

The main benefits of ModusToolbox™ Motor Suite are:

- Effortless and Accurate Board Setup
- Comprehensive Signal Analysis
- Customized status monitoring
- Optimized System Performance
- Optimized Algorithms

For more information visit <https://www.infineon.com/motorsuite>

Key features

Initial system setup – Out of the Box Demo

- Automatic kit identification
- Run pre-selected motor

Comprehensive Motor Control firmware solution

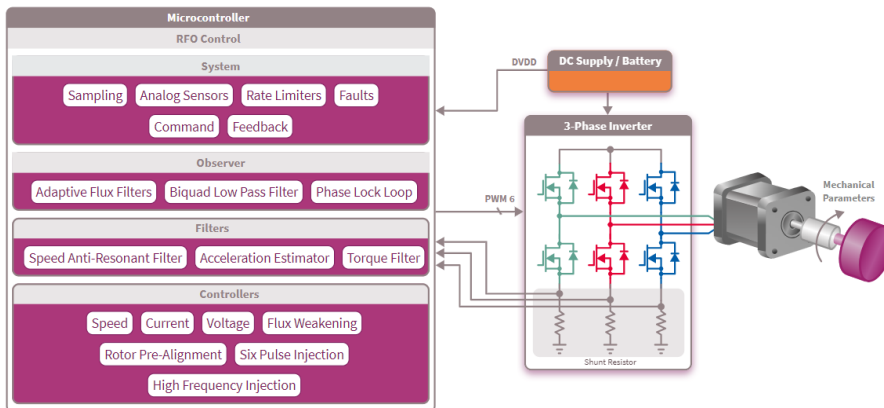
- Different types of motors supported
- Various control and feedback methods, current sampling, and protection mechanisms

High sample rate Oscilloscope

- Visualize and analyze motor control signals
- Identify and debug issues, and optimize system performance

Test bench-dashboard for testing and tuning the motor

- Efficient Tuning: Optimize system performance with quick and easy tuning
- Motor Profiler: Gain detailed insights into motor behavior for optimal performance



Key Applications

Motor Control	Servo drives
	General purpose drives
	Robotics
	Drone and Multicopter
	Light electric vehicles
	Power Tools
	Laundry machines
	Battery powered applications

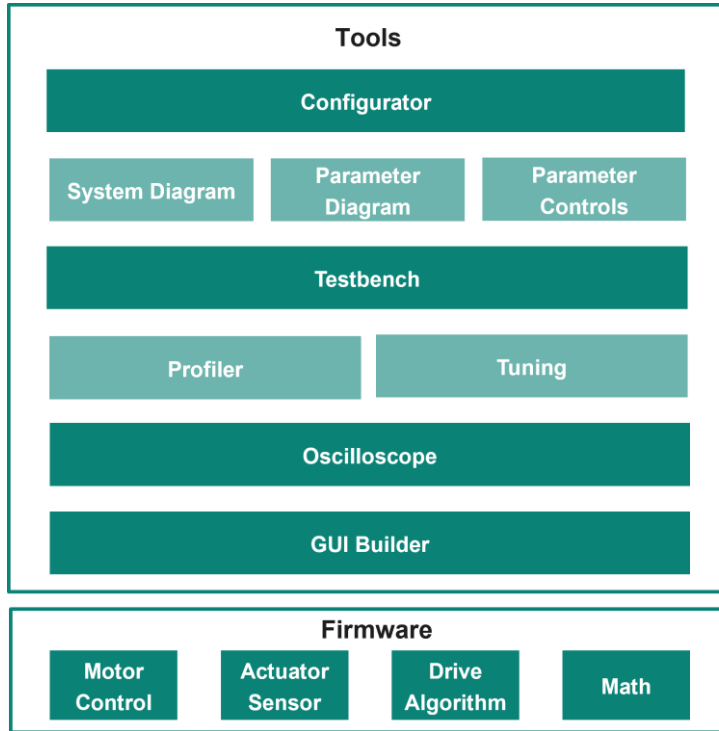


PRODUCT BRIEF

Ordering Supported Part Numbers

Product Name / OPN	Family	Product	Package
KIT_XMC7200_DC_V1/KITXMC7200DCV1TOBO1	XMC™	XMC7000 MCU	Kit
KIT_XMC7200_MC1/KITXMC7200MC1TOBO1	XMC™	XMC7000 MCU	Kit

Block Diagram



Important Links

- Find out more about [ModusToolbox™ Motor Suite](#)
- Find out more about the XMC™ motor control kits: [KIT_XMC7200_MC1](#) and [KIT_XMC7200_DC_V1](#)
- Visit [ModusToolbox™ software webpage](#) for functionality and releases
- 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



www.infineon.com

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