PRODUCT BRIEF

ModusToolbox™ Power Suite

Unleash the power of Infineon's industrial microcontrollers with Infineon's Power Suite Ecosystem

ModusToolbox™ Power Suite is designed to make the development of power conversion applications easier.

With a long history of developing affordable and energy-efficient power conversion solutions that meet the highest performance and quality standards, Infineon provides an ecosystem for power conversion designs including hardware semiconductor components, evaluation boards and software.

ModusToolbox™ Power Suite software ecosystem is comprised of different packages:

- Power Suite GUI: power supply evaluation GUI that simplifies the development, evaluation and testing of power conversion solutions, allowing PMBUS monitoring in real-time
- Power Suite Libraries: libraries to run digital power control of different power topologies
- Code Examples: Source code for various power conversion use cases that run on Infineon's evaluation boards.

Evaluation boards, comprehensive firmware and MCU configuration tools; together with advanced algorithms tailored for optimal power stage performance, efficiency, and reliability, enable developers to quickly design, test, and deploy power conversion systems, reducing time-to-market.

ModusToolbox™ integration simplifies development of power conversion applications by providing all resources needed in a single tool, including peripheral drivers, middleware, configuration tools, and other components support or smart sensors.

Specification and compatibility

Supported microcontrollers:	PSOC™ Control C3 Entry Line, PSOC™ Control C3 Main Line
Topologies:	PFC, LLC, further additions will follow
Supported Evaluation Kits:	KIT_PSC3M5_CC1, KIT_PSC3_PFC1
Compatible tools:	ModusToolbox™ Software

Key features

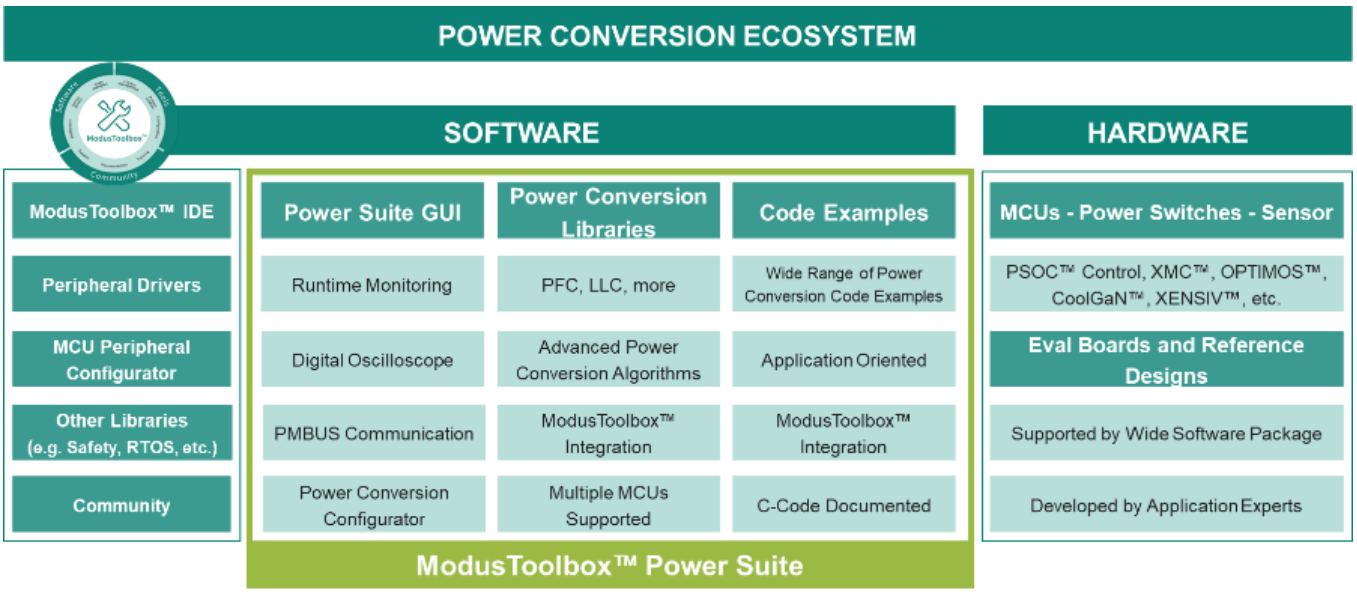
- Configure MCU for power conversion
- GUI to simplify run-time lab testing including digital oscilloscope
- Topology libraries supporting different power converters covering:
  - Advanced control algorithms for different power topologies
  - Various filter options, like 3-Pole/ 3-Zero (3P3Z)
  - Protection and housekeeping functions for optimal performance
- Application-specific code examples that run on Infineon evaluation boards

Key benefits

- Faster Time-to-Market: Enable developers to easily design, test, and optimize power conversion systems
- Out-of-the-box solution
- Comprehensive firmware and MCU configuration tools
- Advanced algorithms tailored for optimal power stage performance, efficiency, and reliability
- Fully integrated into ModusToolbox™: all the needed resources in a single tool

For more information visit: ModusToolbox™ for Power Conversion

Block diagram



Target applications

- Industrial power supplies
- Server power supply units (PSU)
- Telecommunications infrastructure SMPS and PSU
- Server SMPS and PSU
- Robotics
- Solar and Micro Inverters
- EV charging

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