

KIT_PSC3_LLC1

PSOC™ Control low-voltage LLC Development Expansion Kit

The KIT_PSC3_LLC1 is part of Infineon's low-voltage power board portfolio intended for evaluation and training in different power conversion topologies with PSOC™ Control MCUs.

The Low-Voltage LLC Resonant Converter Development Expansion Kit is a highly integrated, safe and flexible platform for developing and testing digital power conversion control. The expansion board features high-frequency primary side full-bridge plus synchronous rectification LLC resonant converter with onboard analog primary and isolated secondary sensing networks, independent auxiliary supply input and an independent hardware-driven protection system. A 120-pin connector links the board to the control card, giving access to all required analog, digital, and PWM signals for digital closed-loop control of the LLC converter. The board includes USB-UART, CAN, and mikroBUS™ (I2C, SPI) interfaces for external communication and system expansion. It also features dedicated test points to simplify waveform measurement, hardware debugging, and control-loop validation. This kit serves as a hardware development accelerator for real-time digital control loop design and firmware validation.

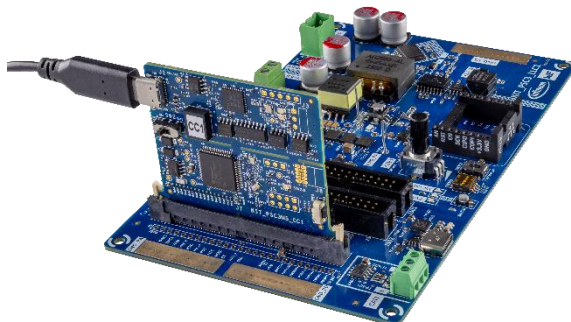
Components available separately required to assemble a system setup:

- [KIT_PSC3M8_CC1 \(Performance Line\)](#) or [KIT_PSC3M5_CC1 \(Main Line\)](#) for the PSOC™ Control C3 control card
- [USB0010](#) PMBus dongle to interface with Power Suite GUI for device control
- DC supply, DC load, and cables for its connection

The [PSOC™ Control Performance Line of MCUs](#) is specifically developed for power conversion applications, enabling designers to innovate, solve complex design challenges and bring their products to market faster than ever before.

PSOC™ Control is supported by [ModusToolbox™](#), a modern, extensible development ecosystem that offers a wide range of tools and software solutions. [ModusToolbox™ Power Suite](#) provides PSOC™ Control developers with all the required software assets for power conversion applications development, like middleware for controlling power topologies, such as LLC and configurable code examples. Additionally, it includes a graphical user interface (GUI), providing real-time parameter monitoring and application control. This helps developers accelerate product evaluation and optimization.

For more Information visit: www.infineon.com/KIT_PSC3_LLC1



Kit Contents

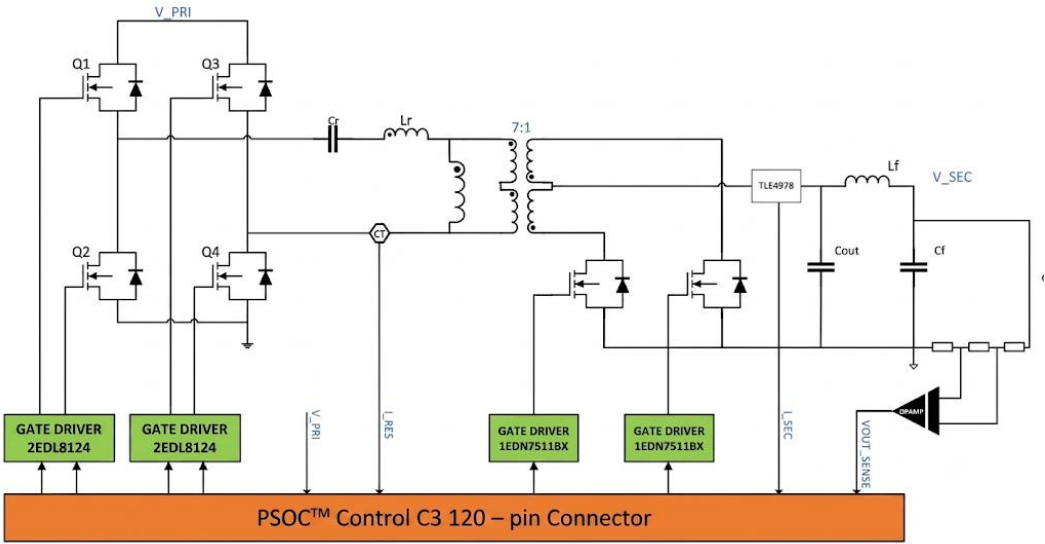
- LLC evaluation board
- AC-DC auxiliary power adapter (230VAC to 12VDC)
- 24 pin ribbon cable
- Quick start guide via QR code

Benefits

- Full bridge LLC on the primary side, center tapped transformer with synchronous rectification on secondary side
- Test points for measurements and analysis of the LLC converter
- Safe operating voltage
- Ideal for early evaluation and training
- Hardware protection to prevent board damage
- Several communication and user interfaces
- Easy evaluation using ModusToolbox™ Power Suite including LLC middleware and code examples
- Software configurable for alternative LLC configurations (i.e. half bridge)
- Enables comparison of PSOC™ Control [Main Line](#) and [Performance Line](#) MCUs

PRODUCT BRIEF

Block diagram



Part Numbers

PN	Kit	Function
KIT_PSC3_LLC1	PSoC™ Control KIT_PSC3_LLC1	Functional system prototype of a resonant converter topology operating in a safe low voltage environment
KIT_PSC3M8_CC1	PSoC™ Control C3M8 Digital Power Control Card	Digital Power Control Card to learn and test digital power control applications
KIT_PSC3M5_CC1	PSoC™ Control C3M5 Digital Power Control Card	Digital Power Control Card to learn and test digital power control applications
USB0010	PMBus Dongle Communication interface	Communication interface between Infineon XDP™ Designer GUI and Infineon's controllers and digital POL

Key Applications

Power Supplies	Server and Datacenter PSU, Telecom PSU
Industrial	eV Charger

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