

KIT_PSC3M8_CC1

PSOC™ Control C3M8 Digital Power Control Card

The PSOC™ Control C3M8 Digital Power Control Card is an evaluation board included in the KIT_PSC3M8_CC1, designed to help engineers assess digital power control applications. The dimensions of the board (53 x 72mm) allow the use of this evaluation card in designs with high power density requirements. The control card integrates a detachable isolated on-board debugger for a plug-and-play experience. The dimensions of the Control Card after the debugger is detached (30 x 72mm) are suitable for 1U rack designs.

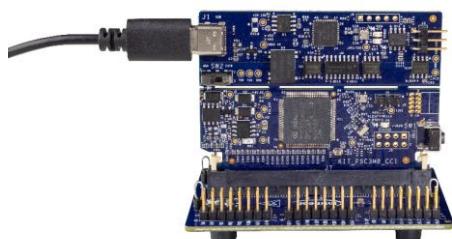
The [PSOC™ Control C3M8 Performance Line MCUs](#) feature an Arm® Cortex®-M33 MCU with a Programmable Power Control Accelerator (PPCA) with Dual Cortex®-M33 cores. Typical applications include power conversion in AI server PSUs, telecom PSUs, industrial, solar, SMPS, EV charging, and robotics, enabling designers to innovate, solve complex design problems and speed up a system design cycle.

The PSOC™ Control C3M8 Digital Power Control Card has the following features:

- Infineon PSOC™ Control C3M8: 180 MHz M33 MCU PSC3M8GFS3PAHQ1, up to 512 KB flash/240 KB SRAM, PPCA (2x 200 MHz M33), E-LQFP-100
- Connection to evaluation boards like the Dual Buck Evaluation Board via the 120-pin Edge connector, including analog signals and PWM
- Three LED's: User-controlled STATUS LED, and DEBUG and COM LEDs
- Isolated debug options (default): On-Board Debugger (SEGGER J-Link LITE) via USB, Isolation needs to be built to avoid overvoltage in the computer
- Isolated connectivity: UART of the On-Board Debugger (SEGGER J-Link LITE) via USB
- Two non-isolated debug options (default no load): SWD/JTAG via a 10-pin 1.27 mm header, and SWD/UART via an 8-pin 2.54 mm header
- Communication Interfaces: Isolated CAN FD and Non isolated PMBUS
- Power supply of PSOC™ Control C3M8: Via evaluation board (5 V typical, 16 V max) converted to 3.3 V, and via debug USB, 5 V DC-DC isolated, and converted to 3.3 V
- Power supply of XMC4200 MCU isolated debug domain: Via debug USB connector

PSOC™ Control is supported by [ModusToolbox™](#), a unified ecosystem platform with tools and software solutions. ModusToolbox™ [Power Suite](#) is available for developers of PSOC™ Control focus applications. It provides a seamless graphical user interface that streamlines evaluation and training and provides real-time parameter monitoring for valuable insights into performance, efficiency, and reliability. Specialized application environments enable engineers to quickly identify issues, optimize designs, and enhance overall functionality.

For more Information visit: www.infineon.com/KIT_PSC3M8_CC1



Kit Contents

- PSOC™ C3M8 control card
- PSOC™ C3M8 interface board
- USB-A to USB-C cable
- Quick start guide via QR code

Benefits

Protection features

- Input over voltage protection
- ESD protection for IOs
- Reverse voltage protection
- Input reverse polarity

Nominal Operation Specification

Power supply of PSOC™ Control C3M8:

- Via Evaluation Board (5V) converted to 3.3V
- Via Debug USB connector, 5V DC-DC isolator and converted to 3.3V

Power supply of XMC4200 MCU isolated debug domain:

- Via Debug USB connector

Featured Components

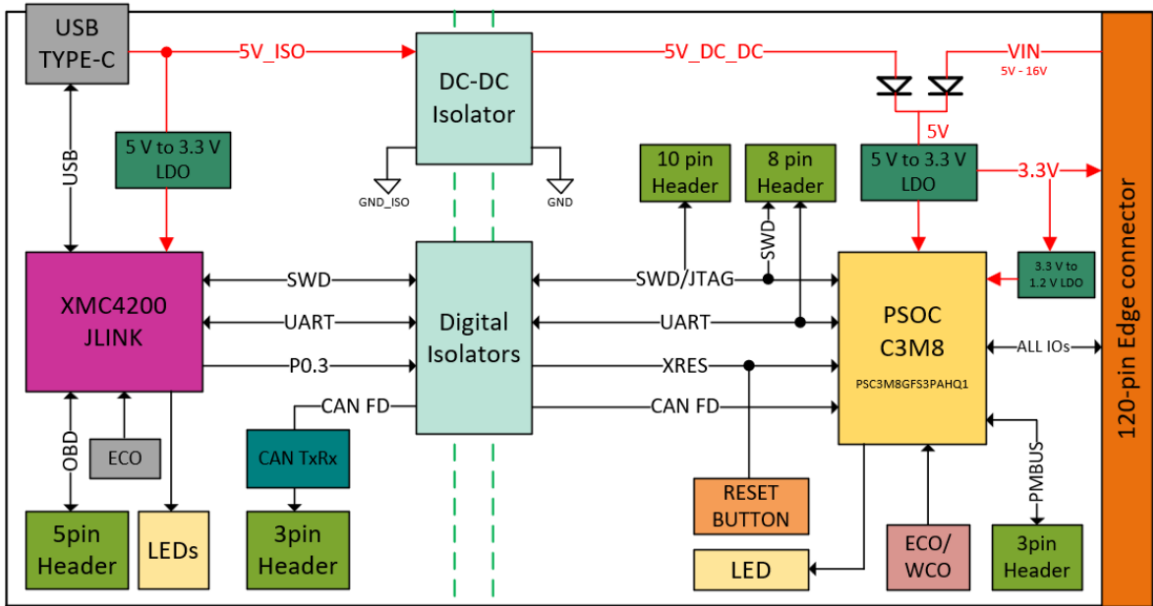
- PSC3M8GFS3PAHQ1 (100-pin)
- XMC4200-Q48F256 BA (J-Link debugger)
- TLS203B0EJV33XUMA1 (Linear Regulator)

Enablement

- Easy evaluation using ModusToolbox™ Power Suite library and code examples

PRODUCT BRIEF

Block diagram



Part Numbers

PN	Kit	Function
KIT_PSC3M8_CC1	PSOC™ Control C3M8 Digital Power Control Card	Evaluate the power conversion functionality using control card and interface board

Key Applications

Power conversion	Power conversion applications in AI server PSUs, solar, SMPS, EV charging
Robotics	Vacuum cleaners, vacuum robots, service robots, industrial robotics

Published by
Infineon Technologies AG
Am Campeon 1-15, 85579 Neubiberg
Germany

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Public

Version: V1.0_EN
Date: 06/2026

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