

KIT_PSC3M8_EVK

PSOC™ Control C3M8 Evaluation Kit

The KIT_PSC3M8_EVK PSOC™ Control C3M8 Evaluation Kit is built to evaluate the features and capabilities of Infineon's PSOC™ Control PSC3M8 series MCU. The evaluation kit integrates multiple hardware and software components to enable users to access the MCU features.

The [PSOC™ Control C3M8 Performance Line MCUs](#) feature an Arm® Cortex®-M33 MCU with a Programmable Power Control Accelerator (PPCA) with Dual Cortex®-M33. 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 KIT_PSC3M8_EVK board includes the following evaluation-specific components:

- Type-C USB connector for power and communication interface
- CAN FD transceiver with terminal connector
- Six user LEDs, three potentiometers, and two user buttons
- Arduino Uno-compatible header interface and expansion header for I/Os
- Onboard regulators, crystal oscillators, JTAG/SWD connector, and supporting discrete components
- Onboard programmer/debugger (KitProg3)

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 power focused 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_EVK



Kit Contents

- PSOC™ Control C3M8 Evaluation board
- USB-A to USB-C cable
- Four jumper wires, each 4 inches long
- Two jumper wires, each 5 inches long
- Quick start guide via QR code

Benefits

Protection features

- Input over voltage protection
- ESD protection for I/Os
- Reverse voltage protection
- Input reverse polarity

Nominal Operation Specification

- USB 2.0 with 1500mA supports components on board
- External source of supply using VIN header
- VIN input supply support 7-12V nominal input voltage
- Arduino header VIN supply is supported

Featured Components

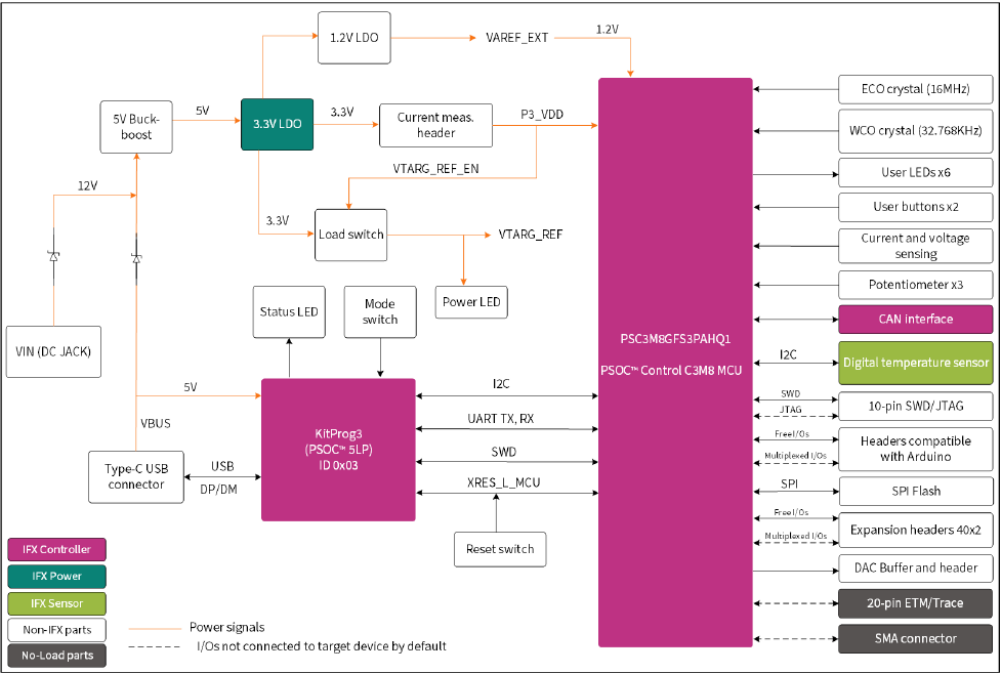
- PSC3M8GFS3PAHQ1 (100-pin)
- CY8C5868LTI-LP039 (Kitprog-3)
- TLE9251VLEXUMA1 (CAN FD)

Enablement

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

PRODUCT BRIEF

Block diagram



Part Numbers

PN	Kit	Function
KIT_PSC3M8_EVK	PSOC™ Control C3M8 Evaluation Kit	PSOC™ Control C3M8 device functional evaluation

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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