CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit release notes

About this document

Scope and purpose

Thank you for your interest in the CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit. This document lists kit contents, installation requirements, kit documentation, and limitations.

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1 Release contents

1.1 Kit contents

The CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit includes the following:

- PSoC™ 4000T CAPSENSE™ evaluation board with enclosure
- Water dropper
- USB Type-A to Micro-B cable
- Quick start guide (printed on the kit package)

2 Tool information

2.1 Software and tools

Code examples for this kit require ModusToolbox™ software 3.0 or later. This is available on the **ModusToolbox™ software webpage**. See the kit guide for details.

KitProg3 firmware v2.40 or later is required to program the **PSoC™ 4000T** device on the kit. The ModusToolbox™ installer automatically installs KitProg3 drivers.

2.2 Code examples and kit collateral

The kit **webpage** includes the documents and hardware files. The code examples are available on the Infineon **GitHub repository**.

2.3 Installation

All required software installation instructions are provided in the kit guide, which is available on the kit **webpage**.

2.4 Kit revision

This is the initial revision (Rev. **)

2.5 Known issues and limitations

1. Liquid tolerance is tested using the steps listed in **CE234752** (PSoC™ 4: MSCLP robust low-power liquid-tolerant CAPSENSE™). The liquid tolerance logic implemented in the code example avoids any false trigger of the sensors, with spray or small liquid droplets. Bigger liquid droplets or a liquid stream may cause false sensor activation. This will be fixed in a future version of the kit and code example.
2. The user LED (**LED6**) and serial RGB LEDs **LED1 (U12)**, **LED2 (U13)**, and **LED3 (U14)** are driven with a common GPIO P4[0]. Serially controlled RGB LEDs need a precise timing signal for controlling the color and brightness. If these timing requirements are not met, **U12** glows in blue, which may be observed while driving the user LED.

Attention: ***To prevent short circuit, do not submerge the kit completely because of the enclosure opening on top.***

2.6 Documentation

The following kit documents are available on the kit **webpage**.

- CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit guide
- CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit quick start guide
- CY8CKIT-040T PSoC™ 4000T CAPSENSE™ Evaluation Kit release notes

2.7 Technical support

For assistance, go to **www.infineon.com/support**. Visit **community.infineon.com** to ask your questions in the Infineon developer community.

2.8 Additional information

- For more information about PSoC™ 4 MCU, and its associated documentation and software, visit **www.infineon.com/cms/en/product/microcontroller/32-bit-psoc-arm-cortex-microcontroller/psoc-4-32-bit-arm-cortex-m0-mcu**.
- For more information about the ModusToolbox™ software functionality and releases, visit the ModusToolbox™ software webpage: **www.infineon.com/cms/en/design-support/tools/sdk/modustoolbox-software**.
- For a list of trainings on ModusToolbox™ software, visit **www.github.com/Infineon/training-modustoolbox**.

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