



Release Notes

CY8CKIT-037 PSoC[®] 4 Motor Control Evaluation Kit

Release Date: June 2, 2015

Thank you for your interest in the CY8CKIT-037 PSoC[®] 4 Motor Control Evaluation Kit (EVK). This document lists installation requirements, limitations, and known issues with the kit.

Kit Contents

The CY8CKIT-037 PSoC[®] 4 Motor Control Evaluation Kit includes the following:

- Motor Control EVK board
- AC-DC 24 V/2.0 A power adapter
- Screwdriver
- A BLDC motor (BLY172S-24V-4000) with sinusoidal back electromotive force
- USB-A to mini-B Cable
- Configuration Jumpers
- Fuse
- Quick start guide

Code Examples and Kit Collateral

The CY8CKIT-037 PSoC 4 Motor Control EVK web page (www.cypress.com/CY8CKIT-037) includes the kit installation packages and setup files (EXE) to install the code examples shipped with this kit. See the kit user guide included in the kit installer or the kit web page for more details on the hardware and examples.

This kit works with the CY8CKIT-042 PSoC 4 Pioneer Kit to get a complete motor control solution. See the kit web page www.cypress.com/go/CY8CKIT-042 for more information.

The following five code examples are provided with this kit:

- Sensored BLDC Motor Control
- Sensorless BLDC Motor Control
- Sensorless Foc Motor Control
- SingleShunt Foc Motor Control
- Stepper Motor Control

These example projects require PSoC Creator[™] 3.2 or later, which is available with the kit installer. You can download the latest version from www.cypress.com/go/psoccreator.

Installation

Installation instructions are provided in the Kit User Guide, which is available at www.cypress.com/CY8CKIT-037.

Note: Do not plug in your kit to the USB port of the PC until all software installation is complete.

Kit Revision

This is the initial revision (Rev. **) of the CY8CKIT-037 PSoC 4 Motor Control Evaluation Kit.

Limitations and Known Issues

- You may encounter some build warnings as shown below with some of the code examples:

```
LPCOMP\LPComp_OC:cy_psoc4_lpcomp_1\ will not function in sleep mode when connected to \IDAC_Iref:cy_psoc4_idac\
```

```
LPCOMP \LPComp_IbusPt:cy_psoc4_lpcomp_1\ will not function in sleep mode when connected to \IDAC_IbusPt:cy_psoc4_idac\
```

These warning messages have no impact on the project feature, so you can safely ignore them. This warning will be eliminated in a future update to PSoC Creator.

- Bridge Control Panel (BCP) monitoring may not be stable when baud rate is set more than 115200.

Documentation

Kit documents are located in the `Documentation` folder of the installation directory. Documents include:

CY8CKIT-037 Motor EVK User Guide.pdf

CY8CKIT-037 Motor EVK Quick Start Guide.pdf

CY8CKIT-037 Motor EVK Release Notes.pdf (This document)

For PSoC Creator documentation, see `Help > Documentation`. The default location for PSoC Creator documents is:

```
<Install_Directory>\PSoC Creator\<version>\PSoC Creator\documentation
```

Technical Support

For assistance, go to www.cypress.com/go/support or contact our customer support at +1(800) 541-4736 Ext. 2 (in the USA), or +1 (408) 943-2600 Ext. 2 (International).

Additional Information

- For more information about PSoC Creator functionality and releases, review the user guide and release notes on the PSoC Creator web page: www.cypress.com/go/psoccreator
- For more information about PSoC Programmer and supported hardware, visit the PSoC Programmer web page: www.cypress.com/go/psocprogrammer
- For a list of trainings on PSoC Creator, visit www.cypress.com/go/creatorstart/creatortraining

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