

CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit release notes

About this document

Scope and purpose

Thank you for your interest in the CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit. This kit is a development platform to design products which can be powered from a high-voltage USB PD port, and also need a microcontroller with CAPSENSE™ capability to implement different applications. This platform supports the USB PD 3.1 protocol up to 140 W (28 V, 5 A) of power consumption. It also supports two self-capacitance-based CAPSENSE™ buttons and one 5-segment slider.

This document lists the kit contents, installation requirements, kit documentation, limitations, and known issues.

Intended audience

This is intended for anyone who uses the CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit of the EZ-PD™ PMG1 MCU family.

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Release information

1 Release information

1.1 Kit contents

The CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit includes the following:

- CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit board
- Quick start guide

1.2 Installation

Note that the CY7113 kit package includes documentation, and hardware design files. The kit is shipped with firmware that implements a USB-PD sink device along with CAPSENSE™ functionality which is programmed at factory. This firmware can support up to 140 W (28 V, 5 A) of power consumption.

The CY7113 kit installation is a three-step process:

1. Download and unzip the latest **CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit** package. After unzipping the kit package, navigate to the *CY7113 EZ-PD™ PMG1-S3 MCU Prototyping Kit* directory to access the documents and hardware design files. Note that the kit documents and the hardware schematic file are also available for download as individual files on the **CY7113 kit webpage**.
2. Download and install the latest **ModusToolbox™** software package. Support for EZ-PD™ PMG1-S3 MCU is added in ModusToolbox™ software version 2.3 onwards. Note that this package is large and downloading may take a while depending on the available internet bandwidth.
3. Download and install the latest **Cypress Programmer** package if you prefer to use a stand-alone programmer to download the EZ-PD™ PMG1-S3 MCU firmware onto the CY7113 kit. You can skip this step if you prefer to download the firmware using the ModusToolbox™ software. Support for EZ-PD™ PMG1-S3 MCU is added in Cypress Programmer version 4.0 onwards.

1.3 Software and tools

See the EZ-PD™ PMG1 MCU prototyping kits guide for more details.

1.4 Kit revision

This is the second revision (rev *A) of the CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit. This revision of the kit uses rev04 of the CY7113 board. The board part number (600-60609-01) and revision (REV04) are marked on the top silkscreen of the board.

Release information

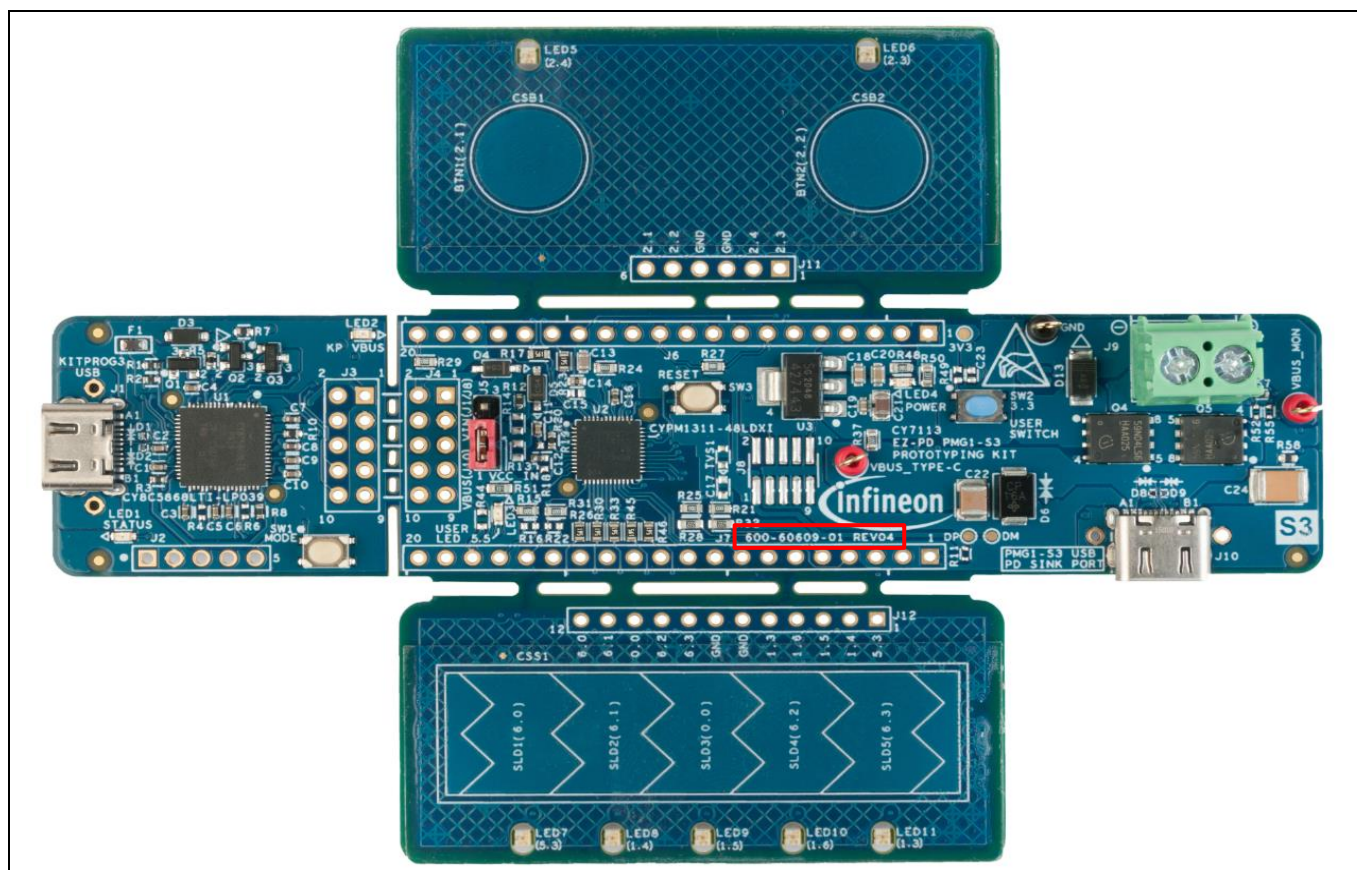


Figure 1 Identifying CY7113 board revision

1.4.1 Change in Rev *A of CY7113

Support for 140 W (28 V, 5 A) is added in Rev *A of the CY7113 kit. This support is enabled using the updated 'USBPD Sink CAPSENSE™' code example that can be downloaded from GitHub. For more details, see the README file associated with the code example. The Rev04 of the CY7113 board readily supports 140 W of power consumption.

Note: The factory firmware loaded on CY7113 Rev04 boards which were manufactured during 2021 support only up to 100 W (20 V, 5 A) of power consumption. The year and work week (WW) of manufacturing can be identified from the label attached to the bottom of the CY7113 board as shown:

```
121-60609-01
Rev DD
YYWWCNDDDDDD
```

Download the latest 'USBPD Sink CAPSENSE™' code example from GitHub through ModusToolbox™ onto the CY7113 Rev04 hardware to enable support for 140 W (28 V, 5 A) of power consumption.

1.5 Limitations and known issues

None

Release information

1.6 Documentation

The kit documents are located in the *Documentation* folder in the installation directory. The default location for the kit documents is: *CY7113 EZ-PD™ PMG1-S3 MCU Prototyping Kit\Documentation*.

Documents include:

- EZ-PD™ PMG1 MCU Prototyping Kits Guide.pdf
- CY7113 Quick Start Guide.pdf
- CY7113 Release Notes.pdf

1.7 Silicon errata

To access the latest version of silicon errata, see the [EZ-PD™ PMG1-S3 MCU datasheet](#).

1.8 Technical support

For assistance, go to [Support](#).

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