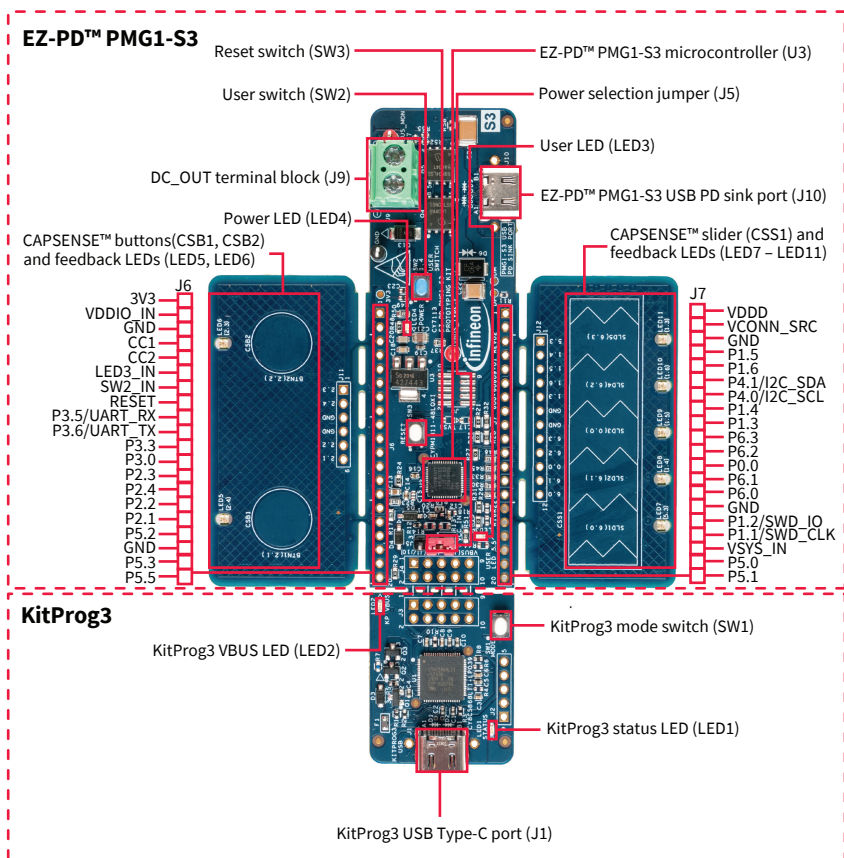


Quick start guide

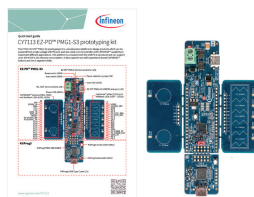
CY7113 EZ-PD™ PMG1-S3 prototyping kit

The CY7113 EZ-PD™ PMG1-S3 prototyping 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 is compliant with the USB PD 3.0 protocol and can support up to 100 W (20 V, 5A) of power consumption. It also supports two self-capacitance-based CAPSENSE™ buttons and one 5-segment slider.



Before you start

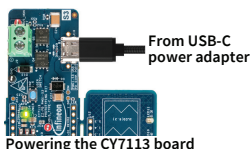
- Ensure that you have a USB PD 3.0-compliant USB-C power adapter (e.g., Apple 30 W USB-C power adapter) with a compatible USB PD 3.0-compliant Type-C cable.
- Download and unzip the CY7113 release package from the CY7113 web page (cypress.com/CY7113).
- Ensure that the jumper shunt on the power selection jumper (J5) is placed at position 1 – 2 to select the USB-C power adapter as the power source.



CY7113 kit contents

Step 1: Hardware connection

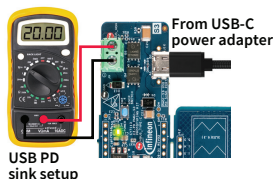
- Connect the USB PD sink port (J10) of the CY7113 board to the USB-C power adapter using the USB Type-C cable.
- Confirm that the power LED (LED4) glows green and the user LED (LED3) blinks green. Now, the kit is ready for use.



Powering the CY7113 board

Step 2: Evaluating the USB PD sink functionality

- Measure the DC_OUT voltage by connecting a multimeter to the terminal block (J9). Confirm that the DC_OUT voltage value is within the 4.75 V – 21.00 V range. The actual value is determined by the maximum voltage which the USB-C power adapter can supply.
- Remove the multimeter and connect an external load to the terminal block (J9).



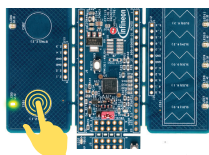
USB PD sink setup



The maximum current that can be consumed by an external load cannot exceed 5 A.

Step 3: Evaluating the CAPSENSE™ functionality

- Touch a CAPSENSE™ button (CSB1/CSB2) by placing a finger on the circular button area. The feedback LED associated with the button (LED5/LED6) glows green until the finger is lifted.
- Slide the finger on the 5-segment slider (CSS1). The feedback LED associated with each slider segment (LED7 – LED11) glows green during the finger contact period.



Evaluating CAPSENSE™ features

Next steps

- See the CY7113 kit user guide (available as part of the CY7113 kit release package) to learn more about the kit features and how to develop applications using ModusToolbox™ software.

www.infineon.com

Published by
Infineon Technologies AG
81726 Munich, Germany

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Document Number: 002-33646 Rev. **
Date: 07/2021

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