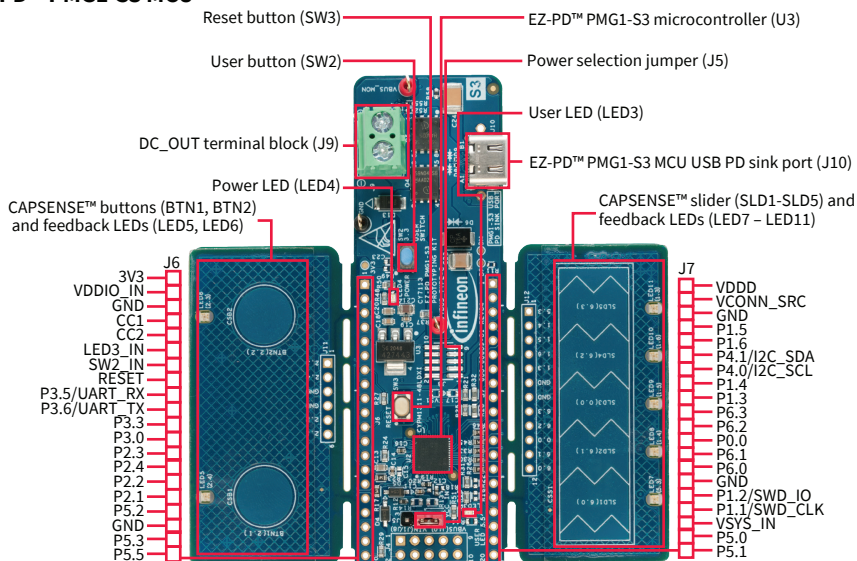


Quick start guide

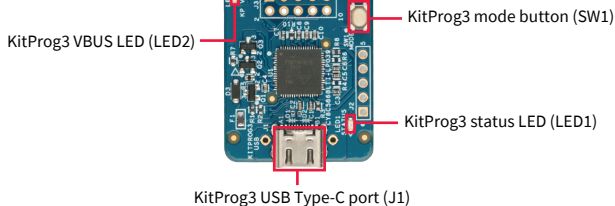
CY7113 EZ-PD™ PMG1-S3 MCU prototyping kit

The CY7113 EZ-PD™ PMG1-S3 MCU 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 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.

EZ-PD™ PMG1-S3 MCU

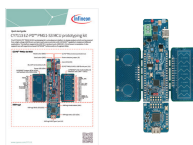


KitProg3



Before you start

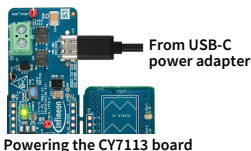
- › Ensure that you have a USB PD 3.1-capable USB-C power adapter (e.g., Apple 140 W USB-C power adapter) with a compatible USB PD 3.1-capable Type-C cable.
- › Ensure that the jumper shunt on the power selection jumper (J5) is placed at position 1–2 to select the USB-C power adapter as the power source.



CY7113 kit contents

Step 1: Hardware connection

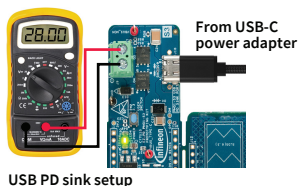
- › Connect the USB PD sink port (J10) of the CY7113 board to the USB-C power adapter using the USB Type-C cable.
- › Confirm that the power LED (LED4) glows green and the user LED (LED3) blinks green. Now, the kit is ready for use.



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–29.4 V range. The actual value is determined by the maximum voltage which the USB-C power adapter can supply.
- › Optional: Disconnect power, remove the multimeter and connect an external load to the terminal block (J9). Re-connect power to the kit and verify that the load is powered.



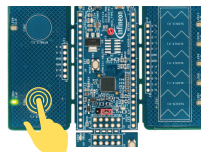
USB PD sink setup



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 (BTN1/BTN2) 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 (SLD1–SLD5). The feedback LED associated with each slider segment (LED7–LED11) glows green during the finger contact period.



Evaluating CAPSENSE™ features

Next steps

- › Download and unzip the CY7113 release package from the CY7113 web page (www.cypress.com/CY7113).
- › 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

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