

CY4534 EZ-PD™ barrel connector replacement-plus (BCR-PLUS)

Evaluation kit



The CY4534 EZ-PD™ barrel connector replacement-plus (BCR-PLUS) EVK is an evaluation platform for customers who want to replace an existing barrel/power input connector with a USB-C connector using the CYPD3176 device. Implementing this solution in an end-product allows the system to be powered by any USB-PD compliant power adapter or any USB power adapter that supports legacy charging standards.



Step 1:

Select the max VBUS voltage using the rotary switch (SW1), which matches the voltage rating of the external load (see Step 4). The actual voltage is determined by the voltage that the USB-C power adapter can provide on the input side.

Warning: Do not sink current greater than 900mA through this EVK board in its default configuration. The board can support up to a maximum of 5 A using resistor setting changes.

Switch position	Max VBUS requested		Minimum current requested**
1	5 V	5 V	900 mA
2	9 V	9 V	900 mA
3	12 V	12 V*	900 mA
4	15 V	15 V	900 mA
5	20 V	20 V	900 mA

Step 2:

Connect a USB-C power adapter (preferably above 30W) to the USB-C connector of the CY4534 EZ-PD™ BCR-PLUS EVK board. Observe the power LED "LED1" (green color) turn ON.





- * If you use USB-C power adapters that do not support 12 V PDOs, 9 V will be observed. See the CY4534 kit guide for more details.
- ** Can be adjusted up to 5 A by changing resistors on the EVK board. See the CY4534 kit guide for more details.

Step 3:

Measure the DC_OUT voltage by connecting a multimeter to the terminal block J2. For example, for position 2 of switch SW1, the measured output voltage will be 9 V.

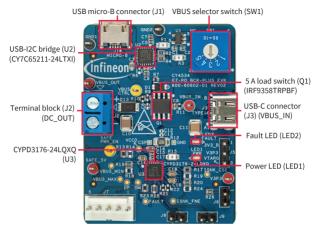


Step 4

To make a power contract at a different voltage supported by the connected USB-C power adapter, disconnect the USB-C power adapter and repeat steps 1 to 3 to observe the new voltage at terminal block J2. Optionally, steps 1 to 3 can be repeated with an external load connected to DC_OUT.

Warning:

- > Ensure that the voltage setting on SW1 does not exceed the voltage rating of the external load connected to J2.
- Ensure that the maximum current that can be consumed by an external load does not exceed 900 mA in the default configuration or 5 A with resistor setting changes.



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