infineon CY4500-EPR EZ-PD Protocol Analyzer User Guide

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QUICK START GUIDE

EZ-PD™ Protocol Analyzer

CY4500-EPR

Kit contents

1. CY4500-Extended power range (EPR)
2. USB 2.0 Type-A to Micro-B cable
3. Six jumper wires (five inches each)
4. Quick start guide (this document)

www.infineon.com/CY4500-EPR

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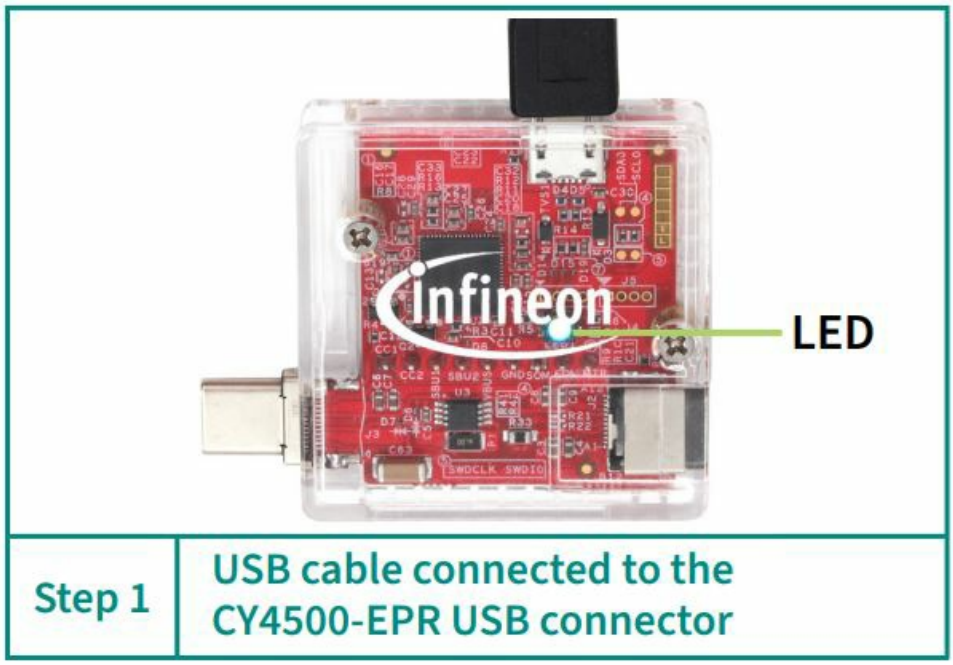
Contents

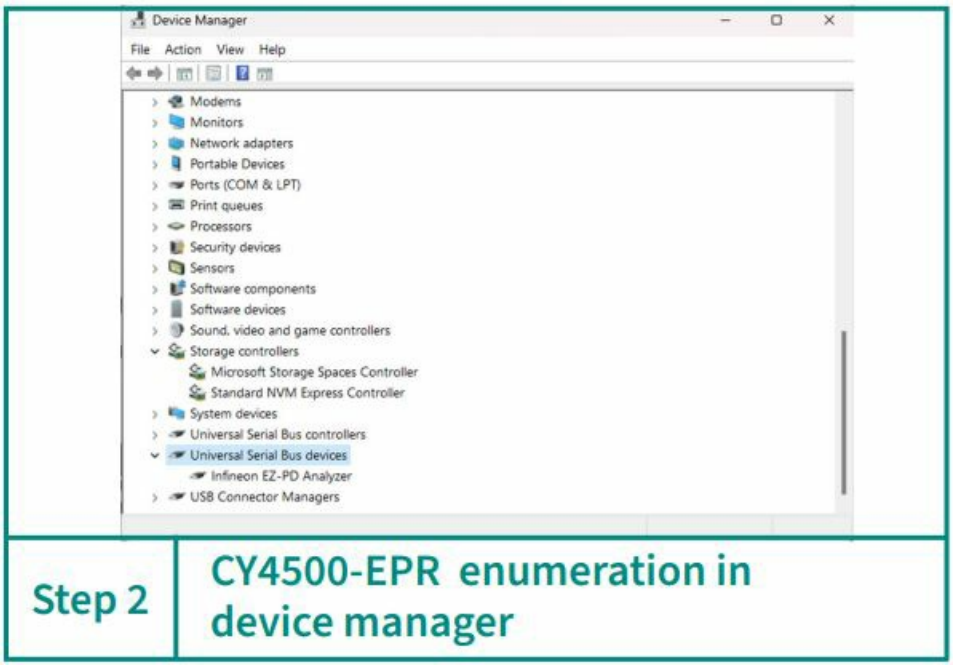
Before you start

1. Ensure that you have the following:

– PC with at least one Type-A port
– USB-PD source device
– USB-PD sink device
Step 1: Connect the CY4500-EPR kit to the PC using the USB 2.0 Type-A to Micro-B cable. Observe that the LED1 blinks white continuously.



Step 2: Wait for the installation of the driver for protocol analyzer to complete. The board enumerates as Infineon EZ-PDTM Analyzer under Universal Serial Bus devices in Windows Device Manager.

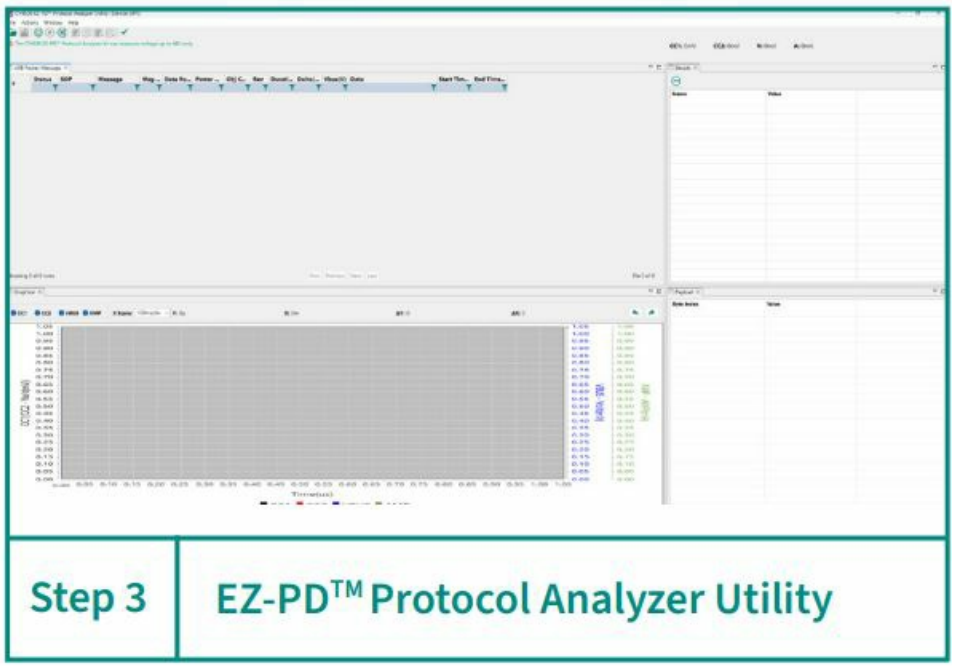


Step 3 EZ-PDTM Protocol Analyzer Utility

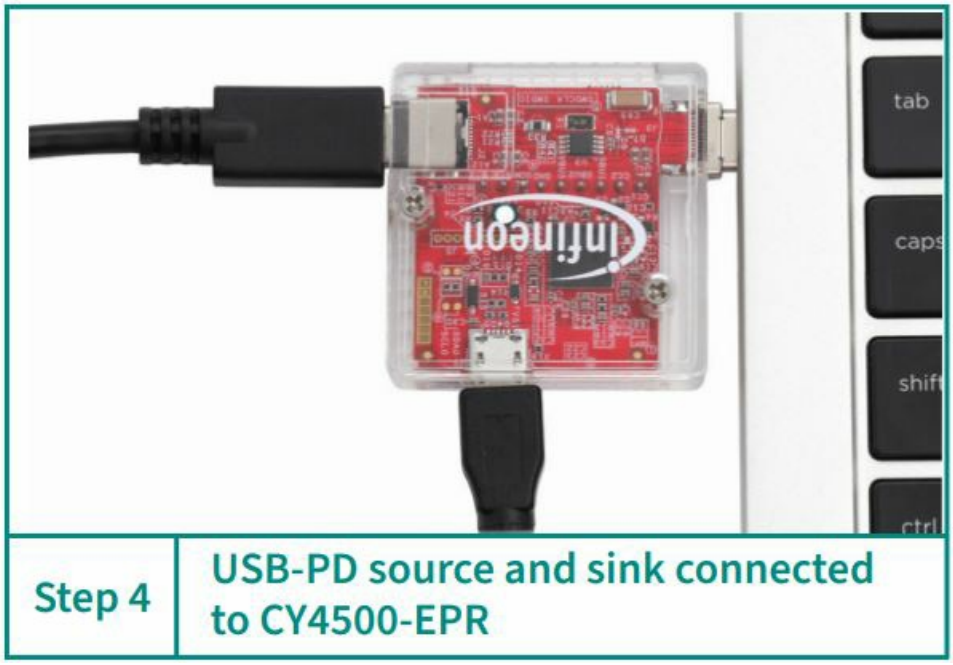
Step 3: Launch EZ-PDTM Protocol Analyzer Utility

1. Download and install the EZ-PDTM Protocol Analyzer Utility from Infineon website.
2. Start the EZ-PDTM Protocol Analyzer Utility.
3. On the utility, click the start icon.

4. Select Action > Start to capture the data.
5. Once the capture starts the LED1 on the CY4500-EPR turns green.



Step 4: Connect the host and sink device to CY4500-EPR
– Connect the Type-C plug/receptacle of the CY4500-EPR EZ-PDTM Protocol Analyzer to the host/sink device.
– Connect the other end of the Type-C plug/receptacle of the CY4500-EPR EZ-PDTM Protocol Analyzer to power adapter or any other device (not provided with the analyzer). For more information, go to **CY4500-EPR EZ-PDTM Protocol Analyzer**.



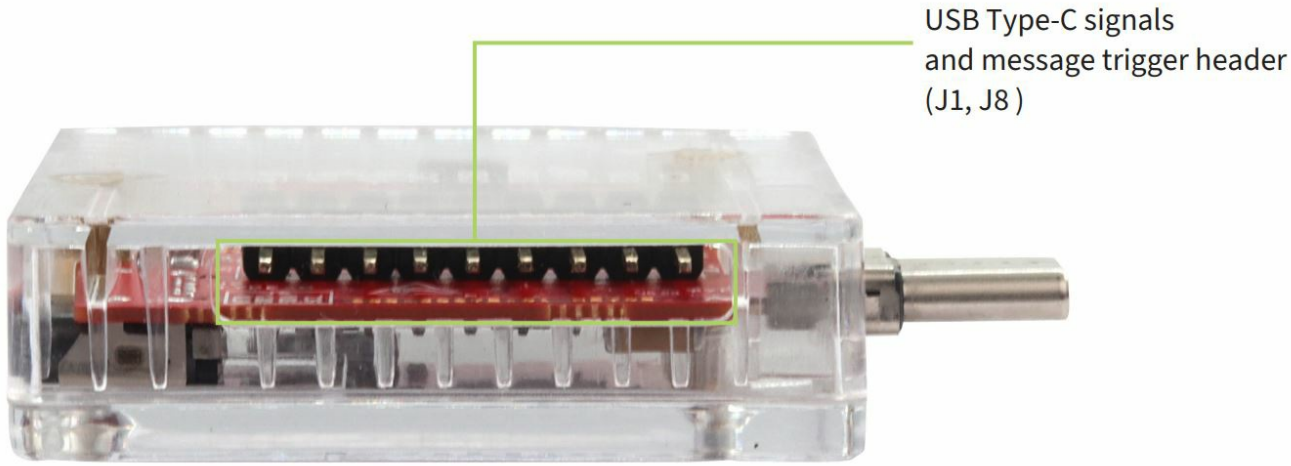
Step 5: Capture and analyze packets
– Observe that the utility captures the USB Power Delivery packets sent on CC lines and displays them on the screen.
– Click a message in the main panel to view the detailed description on the right panel.

Note:
– The older CY4500 EZ-PDTM Protocol Analyzer is compatible with the newer application (even if the application

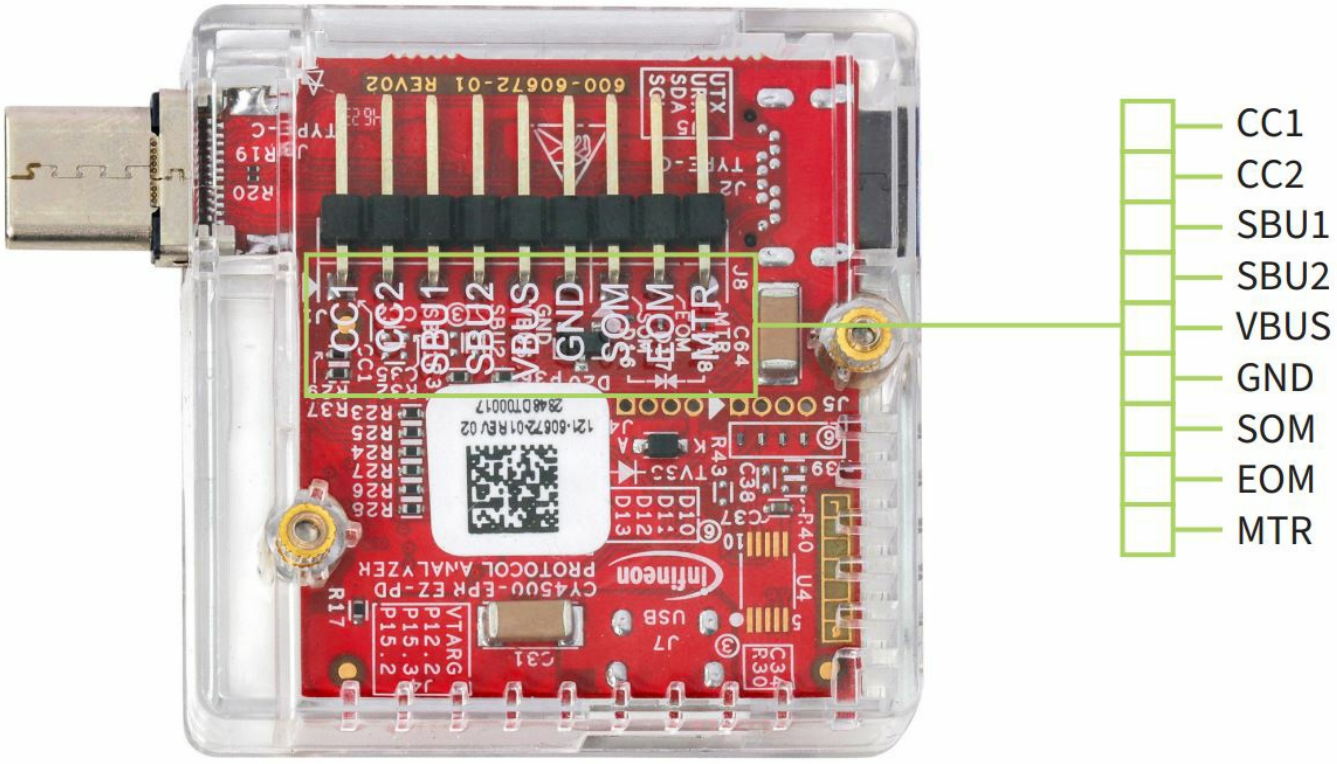
prompts to download a new firmware on the device but VBUS will be limited to SPR).
– Ensure that the Type-C host and the power adapter/ device is connected to CY4500-EPR board and does not exceed 5 V on CC lines.

CY4500-EPR (top view)

CY4500-EPR (side view)



CY4500-EPR (bottom view)



Contact technical support to obtain the kit document and so ware examples. For additional details, see the kit guide available on the Infineon kit webpage – https://www.infineon.com/CY4500-EPR

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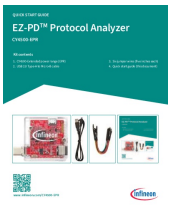
Documents / Resources

	infineon CY4500-EPR EZ-PD Protocol Analyzer [pdf] User Guide CY4500-EPR EZ-PD Protocol Analyzer, CY4500-EPR, EZ-PD Protocol Analyzer, Protocol Analyzer

References

- CY4500-EPR | CY4500-EPR EZ-PD™ Protocol analyzer - EZ-PD™ analyzer utility - Infineon Technologies
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- User Manual