



GRL Platform Solutions

Addendum

GRL-USB-PD-BCSINK Addendum for Hardware Setup with GRL-USB-PD-BCSINK Fixture Set and GRL Platform Solutions USB Type-C® Power Delivery Tester and Analyzer (GRL-USB-PD-C2-EPR)



This material is provided as a reference to set up the hardware for USB Battery Charging (BC) 1.2 functional testing using the GRL Platform Solutions GRL-USB-PD-BCSINK fixture set and GRL-USB-PD-C2-EPR test controller.

For user support or information, contact support@grlps.com.

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1 Scope of this Addendum

This Addendum serves as a supplementary documentation to connect the GRL-USB-PD-BCSINK test fixtures to the GRL-USB-PD-C2-EPR USB Type-C Test Controller for USB BC 1.2 functional compliance testing.

The GRL-USB-PD-BCSINK fixture set comprises the following:



- **BC Extension Board** – Extension fixture for the GRL-USB-PD-C2-EPR test controller, used to support USB Battery Charging (BC) 1.2-standard Sink test cases.



- **GRL-C2-EXT5 Extension Board** – EXT5 extension fixture for the GRL-USB-PD-C2-EPR test controller, used to:
 - Control inputs/outputs from the GRL-USB-PD-C2-EPR test controller.
 - Control the BC Extension Board.



- **F1R-IO-TBT-Cable** – Thunderbolt input/output test cable, used for connecting the GRL-C2-EXT5 Extension Board with BC Extension Board.

The GRL-USB-PD-BCSINK fixture set supports the following BC 1.2 Sink test cases when used with the GRL-USB-PD-C2-EPR test controller:

- BC.SNK.1 Initial Power-up Test
- BC.SNK.2 DCP Detection Test
- BC.SNK.3 CDP Detection Test
- BC.SNK.4 SDP Detection Test
- BC.SNK.5 QC Negotiation Test

Refer to the GRL-USB-PD-C2-EPR user documentation in <https://www.grlps.com/en-us/download-center> for details on the GRL-USB-PD-C2-EPR software and available test cases.

2 GRL-USB-PD-BCSINK Fixture Set Setup

Below is the procedure to set up and attach the GRL-USB-PD-BCSINK test fixtures to the GRL-USB-PD-C2-EPR controller.

1. Connect both the BC Extension Board and GRL-C2-EXT5 Extension Board using the F1R-IO-TBT-Cable test cable as shown below.



2. Connect both the BC Extension Board to the USB Port of the GRL-USB-PD-C2-EPR test controller and the GRL-C2-EXT5 Extension Board to the Extension Port of the GRL-USB-PD-C2-EPR controller as shown above.

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