

# Granite River Labs

## Addendum

### for Hardware Setup with GRL-USB-PD-SNIF Fixture and GRL USB Type-C Power Delivery Tester and Analyzer (GRL- USB-PD-C2)



This material is provided as a reference to set up the hardware for USB Power Delivery (USB-PD) sniffer function utility testing using the Granite River Labs GRL-USB-PD-SNIF fixture and GRL-USB-PD-C2 test controller.

For software support, contact [support@graniteriverlabs.com](mailto:support@graniteriverlabs.com).

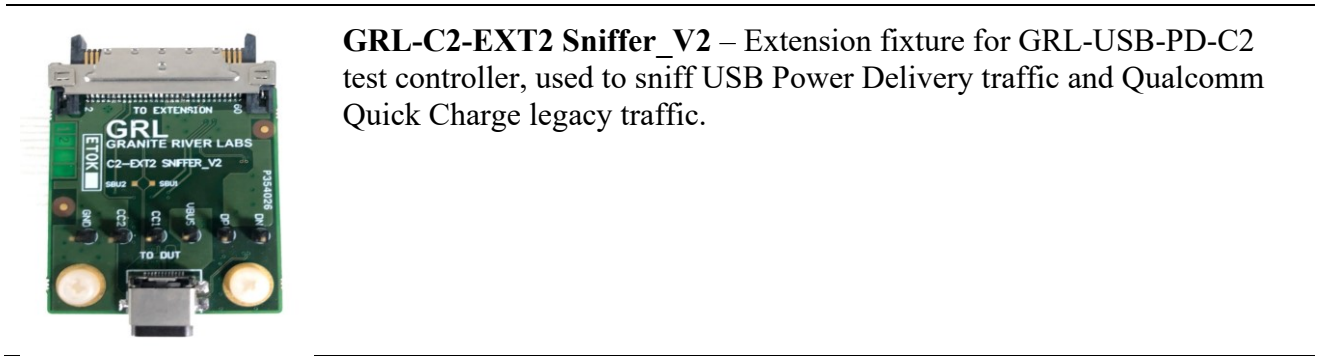
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# 1 Scope of this Addendum

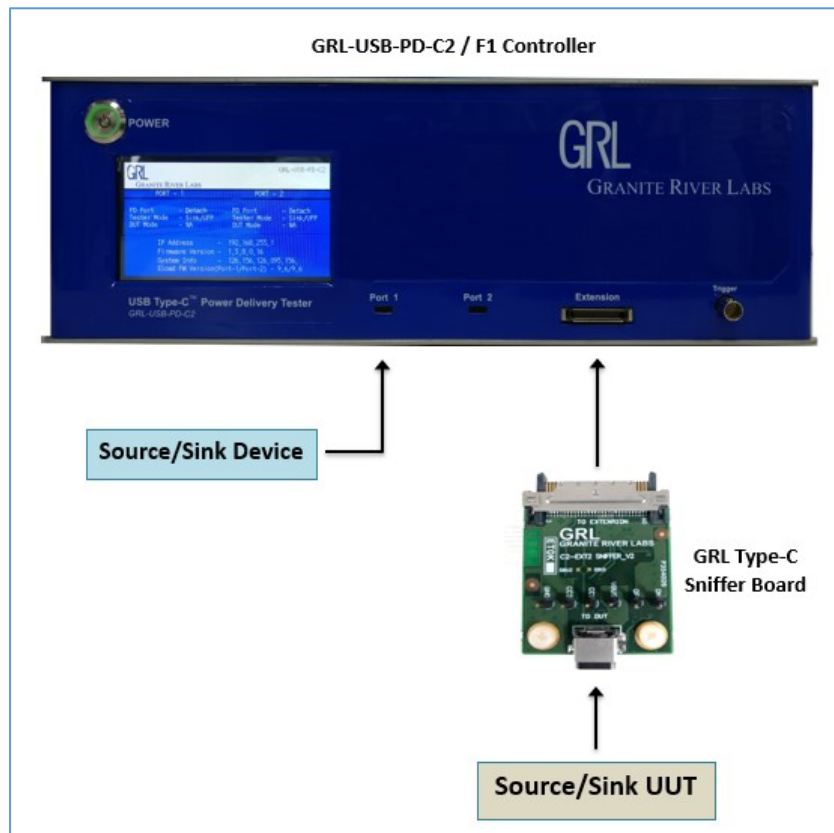
This Addendum serves as the supplementary documentation for how to connect the GRL Type-C Sniffer Board (GRL-USB-PD-SNIF) to the GRL-USB-PD-C2 USB Type-C Test Controller for sniffing USB-PD traffic and Qualcomm Quick Charge legacy traffic. The sniffer function allows you to view the PDO negotiations while running sub sampling of USB-PD data packets and generating the PDO communications exchange protocol for the Source/Sink UUT.

The GRL-USB-PD-SNIF Board consists of a sniffer extension fixture as follows:



# 2 Setup of GRL-USB-PD-SNIF Test Fixture

Below is the procedure to set up and attach the GRL-USB-PD-SNIF fixture to the GRL-USB-PD-C2 controller.



1. Connect the Source or Sink device (for testing the respective Sink or Source UUT) to the USB Test Port 1 of the GRL-USB-PD-C2 controller. The Controller Test Port 1 will act as the Source/Sink for the UUT.
2. Attach the GRL-USB-PD-SNIF fixture to the Extension connector of the GRL-USB-PD-C2 controller and then plug in the UUT to the Type-C connector of the GRL-USB-PD-SNIF fixture.

Note:

- Refer to the GRL Power Suite Pro (GRL-PSP) user documentation from <http://graniteriverlabs.com/download-center/> for details on using the sniffer function in the GRL-PSP software.

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## Download Center

Download GRL software, user manuals and other detailed product information

GRL USB PD/Type-C Test Software Suite			
GRL Power Suite Pro (GRL-PSP)	v3.2.10035	–	<a href="#">Download</a>
GRL-PSP Demo Video			
» GRL PSP: Multi-Functional Testing for Competitive Benchmarking, Debug and Interop Testing			
GRL Battery Monitor for Android	v1.0.18		<a href="#">Download</a>
GRL Power Suite Pro (GRL-PSP) User Documentation	v3.2.1		<a href="#">Download</a>

FIGURE 2.1: GRL SUPPORT DOWNLOAD PAGE FOR GRL-PSP USER DOCUMENTATION

- Refer to the GRL-USB-PD-C2 Browser App user documentation from <http://graniteriverlabs.com/download-center/> for details on using the sniffer function in the GRL-USB-PD-C2 Browser App.

» Download Center

## Download GRL software, user manuals and other detailed product information

PD 3.0 & QC4+ Solution – USB Power Delivery and Type-C® Tester and Analyzer (GRL-USB-PD-C2)			
GRL USB PD/Type-C Compliance Test Software (Browser)	v1.5.20.0	Jan. 29, 2021	<a href="#">Download</a>
C2 Demo Video			
» GRL C2 Makes it Easy to Test USB Power Delivery			
Browser App User Documentation	v2.0		<a href="#">Download</a>

FIGURE 2.2: GRL SUPPORT DOWNLOAD PAGE FOR GRL-USB-PD-C2 BROWSER APP USER DOCUMENTATION

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