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Addendum

GRL-USB-PD-FRS Addendum for Hardware Setup with GRL-USB-PD-FRS 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 Fast Role Swap based testing using the GRL Platform Solutions GRL-USB-PD-FRS fixture set and GRL-USB-PD-C2-EPR test controller.

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

Published on 25 June 2026

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TABLE OF CONTENTS

1	SCOPE OF THIS ADDENDUM	4
2	GRL-USB-PD-FRS FIXTURES SETUP	5

1 Scope of this Addendum

This Addendum serves as a supplementary documentation to connect the GRL Platform Solutions Fast Role Swap (FRSWAP) Board (GRL-USB-PD-FRS) to the GRL-USB-PD-C2-EPR Test Controller for Fast Role Swap based testing.

The GRL-USB-PD-FRS fixture set comprises the following boards/accessory:



- **GRL-C2-FR-SWAP-AUTO Box Board** – Fixture for the GRL-USB-PD-C2-EPR test controller, used to automate Fast Role Swap based testing. Connects to the DUT to remove External AC power from the DUT.



- **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.
 - Provide signal triggering for FRSWAP, GRL-USB-PD-SHT extension fixture and other peripherals.



- **FR-SWAP-CAB** – FRSWAP test cable, used for connecting the GRL-C2-EXT5 extension board with the GRL-C2-FR-SWAP-AUTO fixture.

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-FRS Fixtures Setup

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

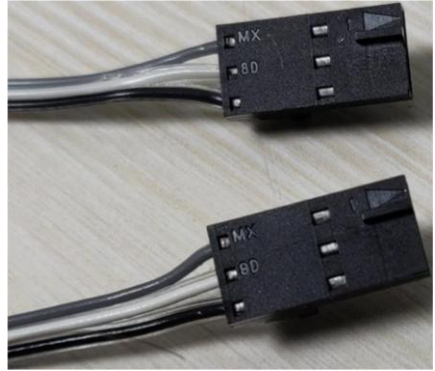
Caution: Carefully insert and remove the power cords to and from the fixture during setup.

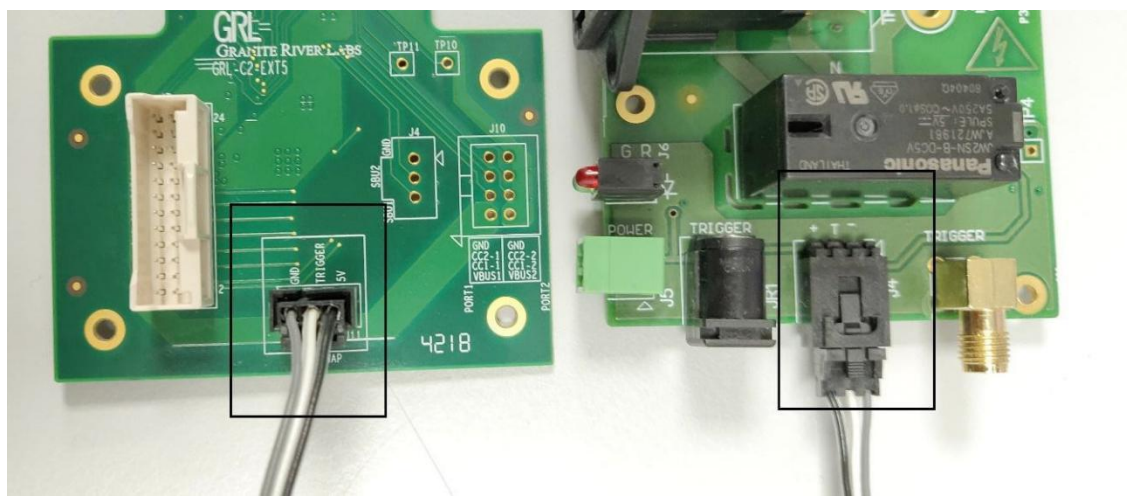
1. Connect the GRL-C2-EXT5 Extension Board to the Extension port of the GRL-USB-PD-C2-EPR test controller and then connect the GRL-C2-FR-SWAP-AUTO Box Board using the FR-SWAP-CAB test cable as shown below:



2. Insert the FR-SWAP-CAB test cable into the respective connectors as shown below. The connection should follow the table below.

GRL-C2-EXT5	GRL-C2-FR-SWAP-AUTO Box
GND	- [GND]
TRIGGER	T [TRIGGER]
5V	+ [5V]





3. Connect a AC power cord from a power socket to the LINE IN connector of the GRL-C2-FR-SWAP-AUTO Box Board and connect a laptop PC power adapter to the LINE OUT connector of the GRL-C2-FR-SWAP-AUTO Box Board as shown in the image above.

Note: Make sure the AC power is switched off during connection.

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