Overview

The PD charger example is a simple demonstration based on the MCUXpresso SDK PD stack.
The application simulate charger product.
The demo only works as source and is external powered.

System Requirement

Hardware requirements

- Type-C shield board
- Type-C Cable
- Hardware (Tower module/base board, and so on) for a specific device
- Personal Computer

Software requirements

- The project files are in:
  <MCUXpresso_SDK_Install>/boards/<board>/usb_examples/usb_pd_source_charger/<rtos>/<toolchain>.

  Note

  The <rtos> is Bare Metal or FreeRTOS OS.
- Terminal tool.

Getting Started

Hardware Settings

- The shield board jumper settings:
  J11 1-2, J12 1-2, J13 1-2, J14 1-2, J4 1-2 J5 1-2.
  For detailed instructions, see the appropriate board User's Guide.

  Note

  Set the hardware jumpers (Tower system/base module) to default settings.

Prepare the example

1. Download the program to the target board.
2. Power off the target board and power on again.

Run the example

1. Connect the OpenSDA USB port to the PC and open terminal.
2. This charger provide power 5V/2.7A and 9V/1.5A.
3. Connect the sink with Type-C cable to the board, The board will print the sink's request power information.
   For example: Download usb_pd_battery demo to another board and connect to the tested board.