

The **FT4233HP** is a hi-speed USB bridge IC with a Type-C controller supporting the latest USB Type-C and Power Delivery standards. USB bridge function is compatible with FT4232H – Quad high-speed USB to multi-purpose UART/MPSSE bridge. The Type-C/PD controller supports two Type-C ports, with PD1 configured as a power sink, or dual-role, and PD2 as a sink.

In this demo setup, the PD1 is connected to the USB-C port of the notebook, sinking power at 5V while sending sensor data and phone messages via USB data transfer to the notebook.

The FT4233HP USB Type-C charge-through application demonstrates how to control the following modules using a notebook PC's USB-C port via a USB to MPSSE/UART/GPIO function, while the notebook remains charged.

When the USB-C charger on PD2 is turned ON, PD1 switches to power sourcing and charges the notebook battery. When the USB-C charger on PD2 is turned OFF, the PD1 switches to sinking power again. The USB-C meter monitors and displays voltage and current of the charging/discharging.

- 1) an ambient light sensor
- 2) a distance sensor with buzzer
- 3) a BT/BLE module for wireless communication via phone/tablet

