Scope

This document describes how to test USB Host PHDC example.

Preparation

Host

A board, i.e. twrk22f120m, which is running host_phdc example.

Device

A board, i.e. twrk70f120m, which is running dev_phdc_weighscale example.

Libraries dependency

The libraries dependency for various RTOS lists as following,

BM

Library project path:

- *<install_dir>/usb/usb_core/host/build/<tool_chain>/usbh_sdk_<board>_bm*
- *<install_dir>/lib/ksdk_platform_lib/<tool_chain>/<platform>*

FreeRTOS

Library project path:

- *<install_dir>/usb/usb_core/host/build/<tool_chain>/usbh_sdk_<board>_freertos*
- *<install_dir>/lib/ksdk_freertos_lib/<tool_chain>/<platform>*

MQX

Library project path:

- *<install_dir>/rtos/mqx/mqx/build/<tool_chain>/mqx_<board>*
- *<install_dir>/rtos/mqx/mqx_stdlib/build/<tool_chain>/mqx_stdlib_<board>*
- *<install_dir>/usb/usb_core/host/build/<tool_chain>/usbh_sdk_<board>_mqx*
- *<install_dir>/lib/ksdk_mqx_lib/<tool_chain>/<platform>*

uCOSii

Library project path:

- *<install_dir>/usb/usb_core/host/build/<tool_chain>/usbh_sdk_<board>_ucosii*

- *<install_dir>/lib/ksdk_ucosii_lib/<tool_chain>/<platform>*

uCOSiii

Library project path:

- *<install_dir>/usb/usb_core/host/build/<tool_chain>/usbh_sdk_<board>_ucosiii*
- *<install_dir>/lib/ksdk_ucosiii_lib/<tool_chain>/<platform>*

Refer to **Integration of the USB Stack and Kinetis SDK_review.pdf(***<install_dir>/doc***)** on how to build the corresponding libraries.

Steps

Follow the steps to run the PHDC host demo.

1. Compile example.

   Note: If this example runs on the MQX and SDK, STD_FP_IO needs to be set to 1 and rebuild the MQX related libraries. This STD_FP_IO can be found in rtos/mqx/mqx_stdlib/source/include/std_prv.h.

2. Run the host_phdc example.

3. Plug-in the PHDC device and you will see some attach information printed out.

4. The PHDC device will automatic send reports to host. You can see information of scan report number, time, value and unit of each data field in terminal tool