Scope

This document describes how to test USB Host CDC example.

Preparation

Host

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

Device

A board, i.e. twrk70f120m, which is running dev_cdc_virtual_com 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>*

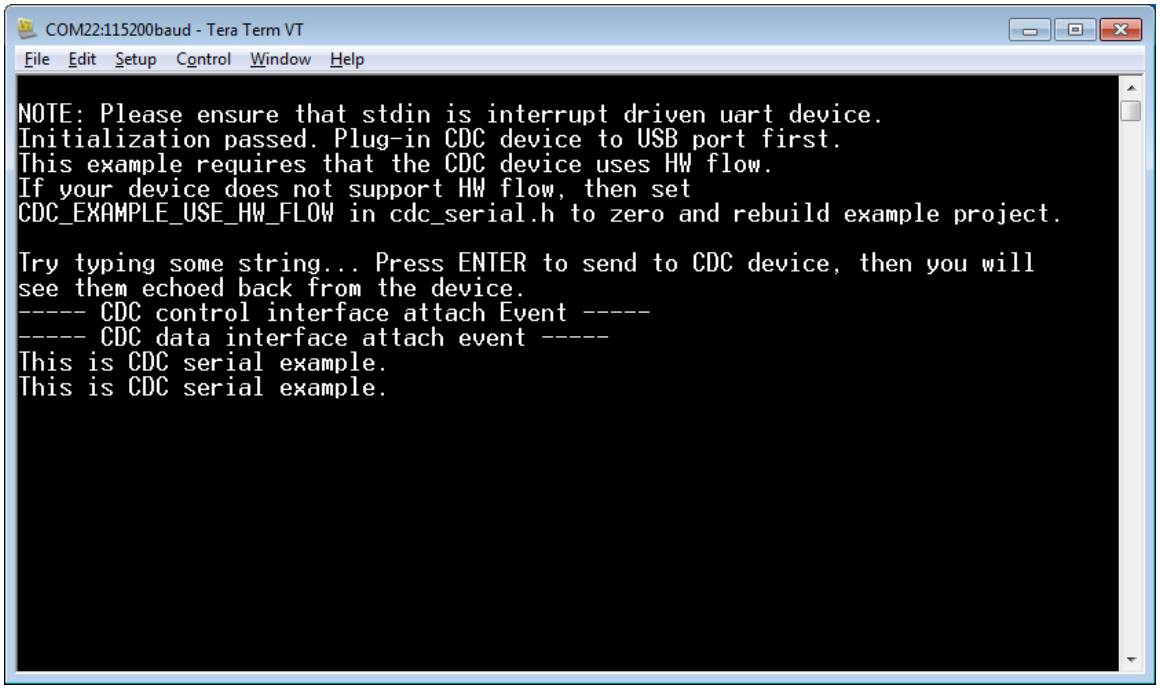
Refer to **Integration of the USB Stack and Kinetis SDK_review.pdf(***<install_dir>/doc***)** on how to build the corresponding libraries.

Steps

Follow the steps to run the CDC serial demo.

1. Run the host_cdc_serial example and you will see the printed guide note. Users can follow that note and do some modifications. For example, choose “ittyb” as stdin port for twrk22f120m to ensure the stdin is interrupt driven.
2. Plug-in the CDC device and you will see some attach information printed out.
3. Type some string and the string will be sent to CDC device if either of the following becomes TRUE:
    - Any “\r” or “\n” received.
    - The string length is greater than CDC_MAX_PKT_SIZE

    After that CDC host will read back the string and put it to stdout.



Note:

- If you want to disable character echo back while typing, set CDC_SERIAL_ECHO_BACK in cdc_serial.h to 0.
- When hotplug the device during transferring a file, make sure that the file sending process in terminal tools(e.g. Tera Term) has been finished before next time you plug in the device.