Overview

The host cdc project is a simple demonstration program that uses the KSDK software. It could enumerate a COM port and echo back the data from the uart ,its work flow is as flowing:

1. host cdc receive data from the uart which will be pluged in the PC . Type some characters from the terminal tool, i.e. Tera Term, these characters will be send to the host example.
2. once the the host example receive data from the uart , it will send those data to the device virtual com .
3. after the data has been send to the device virtual com successfully, It will receive the same data from the device virtual com.
4. if the host has received the data ,it will send those data the uart by the uart driver api, at this time ,the uart will echo back the data to the PC .

System Requirement

Hardware requirements

- J-Link ARM
- P&E Micro Multi-link universal
- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (tower/base board, ...) for specific device
- Personal Computer(PC)

Software requirements

- The project path is: <SDK_Install>/boards/<board>/usb/usb_host_cdc/<RTOS>/<toolchain>.

Note

The RTOS is BM, FreeRTOS.

Getting Started

Hardware Settings

Prepare the example

1. Download the program to the target board.
2. Power off the target board. And then power on again.
3. Connect devices to the board.

Note

For detailed instructions, see the appropriate board User's Guide.

Run the example

1. Run the host_cdc_serial example and you will see the printed guide note. Users can follow that note and do some modifications.
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 The string length is greater than USB_HOST_SEND_RECV_PER_TIME, if the length is small than USB_HOST_SEND_RECV_PER_TIME, the string will echo back some time later. After that CDC host will read back the string and put it to stdout.