

Overview

This Host HID example is a simple demonstration program that uses the KSDK. The application supports the mouse device. It prints the mouse operation when the mouse device is attached.

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 a specific device
- Personal Computer(PC)

Software requirements

- The project path is:
<SDK_Install>/boards/<board>/usb_examples/usb_host_hid_mouse/<RTOS>/<toolchain>.

Note

The RTOSes are bare metal, FreeRTOS OS, μ COS/II or μ COS/III.

Getting Started

Hardware Settings

- The Jumper settings:
J21 1-2.

Prepare the example

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

Note

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

Run the example

1. Connect the board UART to the PC and open the COM port in a terminal tool.
2. Plug in the HUB or the mouse device to the board. The attached information prints out in the terminal.
3. The mouse operation information prints in the terminal when you operate the mouse.

The application prints the mouse operation information in one line. Each line contains the following sequential string: "Left Click", "Middle Click", "Right Click", "Right"/"Left" movement, "UP"/"Down" movement and "Wheel Down"/"Wheel Up" movement. White space replaces the above string if the mouse doesn't have the corresponding operation.

For example, when the mouse moves right and up,

"

Right UP

"

prints in the terminal.

The following figure is an example to attach one mouse device.

```
host init done
hid mouse attached:pid=0x2510vid=0x93a address=1
mouse attached
control transfer error
                                Wheel Down
                                Right Click
Left Click
                                Right Down
                                UP
                                UP
                                Right UP
                                UP
                                UP
                                Right UP
                                Left UP
                                Left
                                Left Down
                                Left Down
                                Left Down
                                Left Down
```

Figure 1: Attach mouse