

Overview

This Host HID example is a simple demonstration program based on the MCUXpresso SDK. The application supports the mouse device. It prints the mouse operation when the mouse device is attached.

System Requirement

Hardware requirements

- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (Tower module/base board, and so on) for a specific device
- Personal Computer (PC)

Software requirements

- The project path is:
`<MCUXpresso_SDK_Install>/boards/<board>/usb_examples/usb_host_hid_mouse/<rtos>/<toolchain>.`

Note

The <rtos> is Bare Metal or FreeRTOS OS.

Getting Started

Hardware Settings

- The Jumper settings:
J9 1-2 high speed mode, 2-3 full speed mode; J10 open high speed, shunt full speed; J11 2-3, J12 2-3, J13 2-3 , need provide external power through J1.

Note

Set the hardware jumpers (Tower system/base module) to default settings.

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.

Host hid example doesn't support HID report descriptor analysis, this example assume that the device data are sent by specific order.

For more detail, please refer to the code. For the device list we tested, please refer to chapter "Peripheral devices tested with the USB Host stack" in "SDK Release Notes xxxx(board name)".

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.

For example, when the mouse moves right and up,

prints in the terminal.

```

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

```