

## Overview

The USB HID mouse application is a simple demonstration program based on the MCUXpresso SDK. It is enumerated as a mouse. Users can see the mouse arrow moving on the PC screen according in a rectangular fashion.

## System Requirements

### 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 files are in:  
`<MCUXpresso_SDK_Install>/boards/<board>/usb_examples/usb_device_hid_mouse/<rtos>/<toolchain>.`  
For lite version, the project files are in:  
`<MCUXpresso_SDK_Install>/boards/<board>/usb_examples/usb_device_hid_mouse_lite/<rtos>/<toolchain>.`

Note

The `<rtos>` is Bare Metal or FreeRTOS OS.

## Getting Started

### Hardware Settings

- Jumper settings for REV B:  
J17 1-2 and 3-5. Besides, two 33ohm resistors (R225 and R227) have to be populated on nets K21\_MICRO\_USB\_DP and K21\_MICRO\_USB\_DN and two 33ohm resistors (R224 and R226) on nets USB0\_DP and USB0\_DN have to be removed for using micro USB connector. 1-2 and 3-5. Besides , two 33ohm resistors (R224 and R226) have to be populated on nets USB0\_DP and USB0\_DN and two 33ohm resistors (R225 and R227) on nets K21\_MICRO\_USB\_DP and K21\_MICRO\_USB\_DN have to be removed for using TWR-SER board's mini USB connector.
- The Jumper settings REV C:  
J17 1-2 and 3-5, J24 1-2 for micro USB connector. 1-2, J24 2-3 for using TWR-SER mini USB connector.

Note

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

### Prepare the example

1. Download the program to the target board.
2. Connect the target board to the external power source (the example is self-powered).
3. Power off the target board. Then power on again.
4. Connect a USB cable between the PC and the USB device port of the board.

Note

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

## **Run the example**

1. Plug-in the device, which is running HID mouse example, into the PC. A HID-compliant mouse is enumerated in the Device Manager.
2. The mouse arrow is moving on PC screen in the rectangular rotation.