

USB Touch Device Using Hid Multitouch Driver

For Linux platform

Version: V1.0
Document No.: ILITEK_LINUX_HID_MULTITOUCH_DRIVER.pdf

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1. 描述

这份文件叙述如何安装linux系统内建的hid multitouch驱动。

2. 安装 HID Multitouch 驱动

如果 linux kernel 版本介于 3.0.35 到 3.5 之前，请从步骤 a 开始，如果大于 3.5 可直接跳至步骤 f 开始。

a. 输入指令 `lsusb` 或 `cat /proc/kmsg` 来取得装置的 VID 及 PID

```
/ # lsusb
lsusb
Bus 001 Device 001: ID 1d6b:0002
Bus 002 Device 001: ID 1d6b:0001
Bus 002 Device 004: ID 222a:0068
```

```
<6>[ 6068.820169] usb 2-1: new full speed USB device number 5 using s5p-ohci
<6>[ 6069.005287] input: ILITEK ILITEK Multi-Touch as /devices/platform/s5p-ohci.2-1:1.0/input/input6
<6>[ 6069.010570] hid-multitouch 0003:222a:0068.0004: input: USB HID v1.1 Device ILITEK Multi-Touch on usb-s5p-ohci-1/input0
```

注意：PID 不绝对是 0x0068

b. 将装置的 VID 及 PID 加到 “drivers/hid/hid-core.c” 中的 “hid_blacklist” 或 “hid_have_special_driver” 结构中

ex: 装置的 VID 及 PID 是 HID_USB_DEVICE(0x222A,0x0068)

0x222A 是装置的 VID, 0x0068 是装置的 PID

0x0006 及 0x0010 是装置 BL mode 的 PID

```
{ HID_USB_DEVICE(USB_VENDOR_ID_ILITEK, USB_DEVICE_ID_ILITEK_MULTITOUCH) },
{ HID_USB_DEVICE(0x222A, 0x0006) },
{ HID_USB_DEVICE(0x222A, 0x0010) },
{ HID_USB_DEVICE(0x222A, 0x0068) },
```

注意：PID 0x0006 及 0x0010 必须加入到结构中

c. 将装置的 VID 及 PID 加到 “drivers/hid/hid-multitouch.c” 中的 “hid_device_id mt_devices” 结构中

ex: 装置的 VID 及 PID 是 HID_USB_DEVICE(0x222A,0x0068)

0x222A 是装置的 VID, 0x0068 是装置的 PID

0x0006 及 0x0010 是装置 BL mode 的 PID

```
/* Ilitek dual touch panel */
{ .driver_data = MT_CLS_DEFAULT,
  HID_USB_DEVICE(USB_VENDOR_ID_ILITEK,
                  USB_DEVICE_ID_ILITEK_MULTITOUCH) },
{ HID_USB_DEVICE(0x222A, 0x0006) },
{ HID_USB_DEVICE(0x222A, 0x0010) },
{ HID_USB_DEVICE(0x222A, 0x0068) },
```

注意：PID 0x0006 及 0x0010 必须加入到结构中

- d. **make menuconfig**
- e. Change “Device Drivers” → “HID Devices” → “/dev/hidraw”, “PID device support” and “/dev/hiddev” state as ‘*’ state

```

--- HID Devices
-*-   Generic HID support
[*]   /dev/hidraw raw HID device support
      *** USB Input Devices ***
<*>   USB Human Interface Device (full HID) support
[*]   PID device support
[*]   /dev/hiddev raw HID device support
      Special HID drivers  --->

```

- f. Change “Device Drivers” → “HID Devices” → “Special HID drivers” → “HID Multitouch panels” state as ‘*’ state

```

<*> Apple MagicMouse multi-touch support
<*> Microsoft non-fully HID-compliant devices
<*> Monterey Genius KB29E keyboard
<*> HID Multitouch panels

```

- g. 储存上述的修改
- h. 重编译 Linux Kernel

Revision History

Version No.	Date	Page	Description
1.0	2015/06/29	All	Firstly released