

Copyright (c) 2013 GENERALTOUCH Co., Ltd

All rights reserved.

## How to apply SAW single-touch touchscreen on Android 4.0.4 with kernel 3.5

PS: Our work is on 64bit system.

### Android kernel

1. Put the `general_touch_single.c` to `/drivers/input/touchscreen/`
2. modify Makefile in `kernel/driver/input/touchscreen`  
add `"obj-$(CONFIG_TOUCHSCREEN_GTSINGLE) += general_touch_single.o"`
3. modify Kconfig in `kernel/driver/input/touchscreen`  
add:

```
config TOUCHSCREEN_GTSINGLE
    tristate "GENERALTOUCH USB Touchscreen Driver For single point"
    depends on USB_ARCH_HAS_HCD
    select USB
    help
        Say Y here if you have a GENERALTOUCH based touchscreen
        controller.

        If unsure, say N.

        To compile this driver as a module, choose M here: the
        module will be called general_touch_single.
```
4. Modify you kernel config(maybe your modified configuration file  
is `.config` , `xx.sh` or another script) , please make sure that  
`CONFIG_TOUCHSCREEN_GTSINGLE=y`
5. Compiled your kernel.

## Android system

6. Add Vendor\_0dfc\_Product\_0001.idc file into /system/usr/idc/

7. modify ueventd.rc (It is likely to be located in system\core\rootdir) as follows:

/dev/graphics/*	0660	root	graphics
/dev/msm_hw3dm	0660	system	graphics
- /dev/input/*	0660	root	input
+ /dev/input/*	0664	root	input
+ /dev/general_touch_single	0666	root	root

## Calibrating the Touchscreen

8. Install Generaltouchsawsinglecaltool.apk and run "generaltouchsawsingle" to start calibrating touchscreen.

### Notes:

Users must have read/write access to "/dev/general\_touch\_single" and read access to "/dev/input/event\*" device node to perform the touchscreen calibration;