

망고210 10.1인치 정전식 LCD Developer Guide

<http://www.mangoboard.com/>

<http://cafe.naver.com/embeddedcrazyboys>

Crazy Embedded Laboratory

Document History

Revision	Date	Change note

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1. 커널 수정

```
/kernel$ vi drivers/input/touchscreen/mango_ft5x06_ts.c
```

```
//#define CONFIG_MANGO_TOUCH_FT5x06_101INCH_OLD
#define CONFIG_MANGO_TOUCH_FT5x06_101INCH
.....
#if defined(CONFIG_SUPPORT_TOUCH_KEY) ||
defined(CONFIG_MANGO_TOUCH_FT5x06_101INCH_OLD) ||
defined(CONFIG_MANGO_TOUCH_FT5x06_7INCH) /* by crazyboy */
    //setup key code area
    set_bit(EV_SYN, input_dev->evbit);
    set_bit(BTN_TOUCH, input_dev->keybit);
    input_dev->keycode = tsp_keycodes;
    for(i = 0; i < CFG_NUMOFKEYS; i++)
    {
        input_set_capability(input_dev, EV_KEY, ((int*)input_dev->keycode)[i]);
        tsp_keystatus[i] = KEY_RELEASE;
    }
#endif

#ifdef CONFIG_MANGO_TOUCH_FT5x06_101INCH
    gpio_set_value(S5PV210_GPH0(5),0);

    mdelay(3);
    MANGO_DBG("10.1inch reset value=%d\n",gpio_get_value(S5PV210_GPH0(5)));
    gpio_set_value(S5PV210_GPH0(5),1);
    mdelay(4);
    MANGO_DBG("10.1inch reset value=%d\n",gpio_get_value(S5PV210_GPH0(5)));
#endif
}
```

2. 커널 config

```
./build_kernel config
```

```
Select LCD tYPE
```

```
Device Drivers --->
```

Graphics support --->

<*> Support for frame buffer devices --->

Select LCD Type (Mango 10.1 1280x800 LTN101AL03) --->

Select LCD Type

Use the arrow keys to navigate this window or press the hotkey of the item you wish to select followed by the <SPACE BAR>. Press <?> for additional information about this option.

```
( ) Mango 10.4 LSA40AT9001
(X) Mango 10.1 1280x800 LTN101AL03
( ) Mango 7inch Innolux(1024x600)
( ) LB070WV6
( ) 101WA01S
( ) TL2796
```

<Select>

< Help >

xres_virtual, yres_virtual을 아래와 같이 바꿔야 합니다.

수정하려면 엔터로 들어가서 ctrl을 누르고 지우면 지워집니다.

Support for frame buffer devices

ys navigate the menu. <Enter> selects submenus --->. Highlighted le
Pressing <Y> includes, <N> excludes, <M> modularizes features. Pres
<c> to exit, <?> for Help, </> for Search. Legend: [*] built-in [] e
le < > module capable

```
--- Support for frame buffer devices
[ ] Enable firmware EDID
[ ] Framebuffer foreign endianness support --->
[ ] Enable Video Mode Handling Helpers
[ ] Enable Tile Blitting Support
*** Frame buffer hardware drivers ***
<*> S3C Framebuffer support
[*] SPLASH_SCREEN on LCD
[*] LCD init in kernel
[ ] S3C Framebuffer debug messages
[ ] S3C Framebuffer FIFO underrun trace
(2) Default Window (0-4)
(2) Number of frame buffers (1-3)
(1) Number of overlay window (0-3)
(3) Number of buffers for overlay window (2-3)
[*] Virtual Screen
(1280) xres_virtual
(800) yres_virtual
```

Touchscreens

Device Drivers --->

Input device support --->

[*] Touchscreens --->

```
--- Touchscreens
< > ADS7846/TSC2046/AD7873 and AD(S)7843 based touchscreens
< > AD7877 based touchscreens
< > Analog Devices AD7879-1/AD7889-1 touchscreen interface
< > Atmel mXT I2C Touchscreen
< > BU21013 based touch panel controllers
< > cy8ctmg110 touchscreen
< > crztech mango 7 inch HX8526 PCAP touch
< > crztech mango 7 inch FT5x06 PCAP touch
<*> crztech mango 10.1 inch FT5x06 PCAP touch
```

완료 후 .config 파일이 보입니다.

```
cp .config arch/arm/configs/mango210_10.1inch_nand256MB_ft5x06_defconfig
cp .config mango210_10.1inch_nand256MB_ft5x06_defconfig

./build_kernel defconfig mango210_10.1inch_nand256MB_ft5x06_defconfig
./build_kernel
```

한 후 이미지에서 라이팅 하면 10.1인치 정전 화면을 볼 수 있습니다.