망고210 10.1인치 정전식 LCD Developer Guide

Document History

Revision	Date	Change note

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(CFG_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 crtl을 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  [ ] 
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.