

M310 (S5PV310) How To Compile And Write And Test LCD

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

[Microsoft Corporation](#)

Registered User

Document History

Revision	Date	Change note

목차

1. How To Compile Uboot.....	4
2. How To Compile Kernel.....	4
3. How To Compile BuildRoot	4
4. How To Make RootFileSystem Image	5
5. How To Fusing SDcard	5
6. How To Test LCD	6

1. How To Compile Uboot

```
./build_uboot
```

2. How To Compile Kernel

감압식 7인치

```
$ ./build_kernel defconfig mango310_7inch_800_480_mrvl8787_defconfig
```

```
$ ./build_kernel
```

정전식 10.1인치

```
$ ./build_kernel defconfig mango310_10_1_1280_800_mrvl8787_defconfig
```

```
$ ./build_kernel
```

3. How To Compile BuildRoot

```
$ cp mango310_defconfig .config
```

```
$ ./build_rootfs.sh
```

You must install 'bzip' on your build machine

```
$sudo apt-get install bzip
```

You must install 'hg' on your build machine

```
$ sudo apt-get install hgsvn
```

src/udev-builtin-input_id.c: In function 'test_key':

src/udev-builtin-input_id.c:165: error: 'BTN_TRIGGER_HAPPY' undeclared (first use in this function)

src/udev-builtin-input_id.c:165: error: (Each undeclared identifier is reported only once

에러 발생 시

```
$ cp udev-builtin-input_id.c ./output/build/udev-182/src/udev-builtin-input_id.c
```

후 다시 컴파일

4. How To Make RootFileSystem Image

image폴더에서,

```
$ ./build_root_image.sh
```

5. How To Fusing SDcard

```
$ dmesg | tail
```

```
[ 20.240841] init: tftpd-hpa main process (1317) terminated with status 1
[ 20.240870] init: tftpd-hpa main process ended, respawning
[ 21.110874] init: plymouth-stop pre-start process (1586) terminated with status 1
[ 27.296004] eth0: no IPv6 routers present
[ 812.689876] sd 6:0:0:0: [sd] 15556608 512-byte logical blocks: (7.96 GB/7.41 GiB)
[ 812.691370] sd 6:0:0:0: [sd] No Caching mode page present
[ 812.691374] sd 6:0:0:0: [sd] Assuming drive cache: write through
[ 812.696372] sd 6:0:0:0: [sd] No Caching mode page present
[ 812.696376] sd 6:0:0:0: [sd] Assuming drive cache: write through
[ 812.697513] sd: sdc1 sdc2 sdc3 sdc4
```

```
$ sudo ./m310_bl_writer sdc 310
```

SD boot mode 2,6 on

DEBUG, USB OTG, 전원(5V) 인가

Uboot command mode에서

```
# fdisk -c 0;fatformat mmc 0:1 ;fastboot
```

Host linux PC에서

```
cd image
```

u-boot Write

```
# sudo ./fastboot flash bl2 bl1ah
```

```
# sudo ./fastboot flash bootloader u-boot.bin
```

kernel Write

```
$ sudo ./fastboot flash kernel zImage
```

```
#filesystem
```

```
# sudo ./fastboot flash system rootfs.img
```

```
## Mango310 Bootargs Setting
```

```
# setenv bootcmd "movi read kernel 0 40008000;bootm 40008000"
```

```
# setenv bootargs 'root=/dev/mmcblk0p2 rw rootfstype=ext4 init=/sbin/init  
console=ttySAC1,115200 rootdelay=3'
```

```
# save
```

6. How To Test LCD

```
# cat /proc/bus/input/devices
```

```
I: Bus=0013 Vendor=dead Product=beef Version=0101
```

```
N: Name="s5pc210_ts"
```

```
P: Phys=input(ts)
```

```
S: Sysfs=/devices/virtual/input/input2
```

```
U: Uniq=
```

```
H: Handlers=event2
```

```
B: PROP=0
```

```
B: EV=b
```

```
B: KEY=400 0 0 0 0 0 0 0 0 0 0
```

```
B: ABS=1000003
```

```
# vi /etc/profile
```

```
export TSLIB_TSDEVICE=/dev/input/event2
```

```
export TSLIB_TSEVENTTYPE=INPUT
```

```
export TSLIB_CONFFILE=/etc/ts.conf
```

```
export TSLIB_CALIBFILE=/etc/pointercal
```

```
export QWS_MOUSE_PROTO="Tslib:/dev/input/event2 Auto"
```

```
export TSLIB_FBDEVICE=/dev/fb2
```

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/lib
```

```
export TSLIB_CONSOLEDEVICE=none
```

Qt 데모 어플을 실행 시켜서, 터치 및 화면 제대로 동작되는지 확인합니다.

```
# /usr/share/qt/examples/touch/pinchzoom/pinchzoom -qws
```

```
[ 147.319486] s3cfb s3cfb.0: [fb2] already in
```

```
FB_BLANK_UNBLANK
```

```
Could not read calibration: "/etc/pointercal"
```

Cannot open input device '/dev/tty0': No such file or directory