

Mango310(S5PV310) Key set Porting Guide

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

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

Crazy Embedded Laboratory

Document History

Revision	Date	Change note

목차

1. Mango310(S5PV310) Key set Porting Guide	4
1.1. Schematic<-> S5PV310<-> datasheet	4
1.1.1. CX-V310 v0.4.....	4
1.1.2. CX-V310 v0.2.....	4
1.1.3. Mango310.....	4
1.2. Source modification	4
1.2.1. Kconfig modification	4
1.2.2. mach-smdkv310.c modifcation	5
1.2.3. make menuconfig.....	7

1. Mango310(S5PV310) Key set Porting Guide

1.1. Schematic<-> S5PV310<->datasheet

1.1.1. CX-V310 v0.4

Schematic	<->	S5PV310	<->	datasheet
KEY_DIN0	<->	XEINT26	<->	GPX3[2]
KEY_DIN1	<->	XEINT27	<->	GPX3[3]

1.1.2. CX-V310 v0.2

Schematic	<->	S5PV310	<->	datasheet
KEY_DIN0	<->	XEINT1	<->	GPX0[1]
KEY_DIN1	<->	XEINT2	<->	GPX0[2]

1.1.3. Mango310

Schematic	<->	S5PV310	<->	datasheet
KEY_DIN0	<->	XEINT26	<->	GPX3[2]
KEY_DIN1	<->	XEINT27	<->	GPX3[3]
KEY_DIN2	<->	XEINT28	<->	GPX3[4]
KEY_DIN3	<->	XEINT18	<->	GPX2[2]

1.2. Source modification

1.2.1. Kconfig modifcation

```
[kjycrz@kjycrz-64bit kernel]$ vi arch/arm/mach-exynos/Kconfig
```

```
menu "Mango Board KEY Select"
    depends on ARCH_EXYNOS4
```

```
config MANGO310_KEY
    bool "MANGO310 KEY"
    depends on PLAT_S5P
    default n
    help
        CM-V310 KEY
```

```
config CMV310_KEY_V0.4
```

```

bool "MANGO CM-V310 V0.4 KEY"
depends on PLAT_S5P
default n
help
    CM-V310 KEY

config CMV310_KEY_V0.2
bool "MANGO CM-V310 V0.2 KEY"
depends on PLAT_S5P
default n
help
    CM-V310 KEY

endmenu

```

1.2.2. mach-smdkv310.c modification

```

[kjycrz@kjycrz-64bit kernel]$ vi arch/arm/mach-exynos/mach-smdkv310.c
#ifdef CONFIG_CMV310_KEY_V02    /* by crazyboy, for CX-V310 */
static struct gpio_keys_button mango310_gpio_keys_table[] = {
    {
        .code = KEY_MENU,
        .gpio = EXYNOS4_GPX0(2), //XEINT1
        .desc = "gpio-keys: KEY_MENU",
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    }, {
        .code = KEY_BACK,
        .gpio = EXYNOS4_GPX0(1),
        .desc = "gpio-keys: KEY_BACK", //XEINT2
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    },
};
#endif
#ifdef CONFIG_CMV310_KEY_V04    /* by crazyboy, for CX-V310 */

```

```

static struct gpio_keys_button mango310_gpio_keys_table[] = {
    {
        .code = KEY_MENU,
        .gpio = EXYNOS4_GPX3(3), //XEINT1
        .desc = "gpio-keys: KEY_MENU",
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    }, {
        .code = KEY_BACK,
        .gpio = EXYNOS4_GPX3(2),
        .desc = "gpio-keys: KEY_BACK", //XEINT2
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    },
};
#endif
#ifdef CONFIG_MANGO310_KEY
#ifdef CONFIG_MANGO310_KEY
static struct gpio_keys_button mango310_gpio_keys_table[] = {
    {
        .code = KEY_MENU,
        .gpio = EXYNOS4_GPX3(3),
        .desc = "gpio-keys: KEY_MENU",
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    },
};
#if !defined(CONFIG_MANGO_TOUCH_HX8526_7INCH)
&& !defined(CONFIG_MANGO_TOUCH_FT5x06_101INCH)//CRZ Fix/CRZ Fix/CRZ Fix
    {
        .code = KEY_HOME,
        .gpio = EXYNOS4_GPX3(4),
        .desc = "gpio-keys: KEY_HOME",
        .type = EV_KEY,
    },
};
#endif

```

```

        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    },
#endif
    {
        .code = KEY_BACK,
        .gpio = EXYNOS4_GPX3(2),
        .desc = "gpio-keys: KEY_BACK",
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    }, {
        .code = KEY_POWER,
        .gpio = EXYNOS4_GPX2(2),
        .desc = "gpio-keys: KEY_POWER",
        .type = EV_KEY,
        .active_low = 1,
        .wakeup = 1,
        .debounce_interval = 1,
    },
};
#endif

```

1.2.3. make menuconfig

```

[kjycrz@kjycrz-64bit kernel]$ make menuconfig
System Type ---> Mango Board KEY Select --->
[ ] MANGO310 KEY
[ ] MANGO CM-V310 V0.4 KEY
[ ] MANGO CM-V310 V0.2 KEY

```