# Porting Guide (NXBT100 module)

Version 1.0.0

**Display Audio** 

Solution Team



#### Release information

The following changes have been make to this document.

**Change History** 

Date	Change
07 Dec 2017	First release for v1.0.0

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## Chap 1. Configuration

#### 1.1 Path

kernel/kernel-4.4.x/arch/arm/configs/s5p4418\_daudio\_ref\_defconfig

## 1.2 Kernel configuration

Enter configuration mode as follows.

\$ cd kernel/kernel-4.4.x

\$ make ARCH=arm s5p4418\_daudio\_ref\_defconfig

\$ make ARCH=arm menuconfig

Check the required items as follows.

- [\*] Networking support —>
  - <\*> Bluetooth subsystem support —>
    - [\*] Bluetooth Classic (BR/EDR) features
  - <\*> RFCOMM protocol support
    - [\*] RFCOMM TTY support
  - <\*> BNEP protocol support
    - [\*] Multicast filter support
    - [\*] Protocol filter support
  - <\*> HIDP protocol support
    - [\*] Bluetooth High Speed (HS) features
    - [\*] Bluetooth Low Energy (LE) features
    - [\*] Export Bluetooth internals in debugfs

Bluetooth device drivers -->

- <\*> HCI UART driver
- -\*- UART (H4) protocol support
- [\*] Broadcom protocol support
- <\*> Enable BCM434545 driver
- <\*> RF switch subsystem support —>
  - [\*] RF switch input support
  - <\*> Generic rfkill regulator driver



#### <\*> GPIO RFKILL driver

Apply config file as follows.

\$ make ARCH=arm savedefconfig

\$ cp defconfig arch/arm/configs/s5p4418\_daudio\_ref\_defconfig



# Chap 2. Porting

## 2.1 DTSI setting

#### 2.1.1 Path

kernel/kernel-4.4.x/arch/arm/boot/dts/s5p4418-daudio\_ref-common.dtsi

### 2.1.2 Bluetooth control

### 2.1.3 Pin configuration

```
bt_cfg_en:bt_cfg_en {
    nexell,pins = "gpioc-7";
    nexell,pin-function = <1>;
    nexell,pin-pull = <2>;
    nexell,pin-strength = <0>;
};
```