

## Q: How to burn images to Nand in EM2416 (Linux)?

A:

The images placed in folder `\Linux\image` in development CD. The fusing tool `uboot_writer.exe` placed in folder `\tools\` in development CD

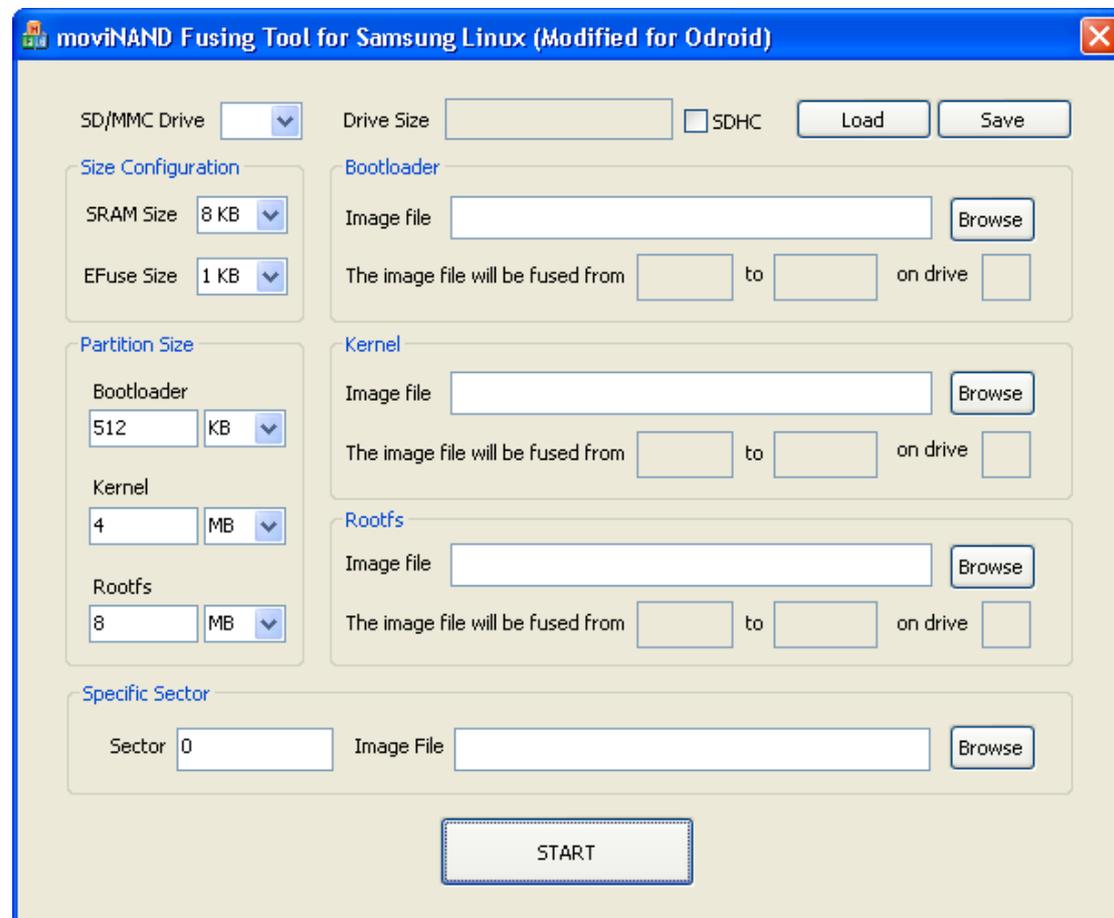
## 1 Making SD card with fusing tool

### Step 1: Prepare the SD card (1G or 2G).

Insert SD card into SD card Reader.

Insert SD card Reader into the USB interface of the PC.

### Step 2: Open uboot\_writer.exe as follow.



The screenshot shows the 'moviNAND Fusing Tool for Samsung Linux (Modified for Odroid)' window. It features several configuration sections:

- SD/MMC Drive:** A dropdown menu and a 'Drive Size' input field. There is a checkbox for 'SDHC' and 'Load'/'Save' buttons.
- Size Configuration:** Includes 'SRAM Size' (8 KB) and 'EFuse Size' (1 KB) dropdowns.
- Partition Size:** Includes 'Bootloader' (512 KB), 'Kernel' (4 MB), and 'Rootfs' (8 MB) dropdowns.
- Bootloader, Kernel, and Rootfs:** Each section has an 'Image file' input field with a 'Browse' button, and a field for 'The image file will be fused from' to 'on drive'.
- Specific Sector:** Includes a 'Sector' input field (set to 0) and an 'Image File' input field with a 'Browse' button.
- START:** A large button at the bottom center.

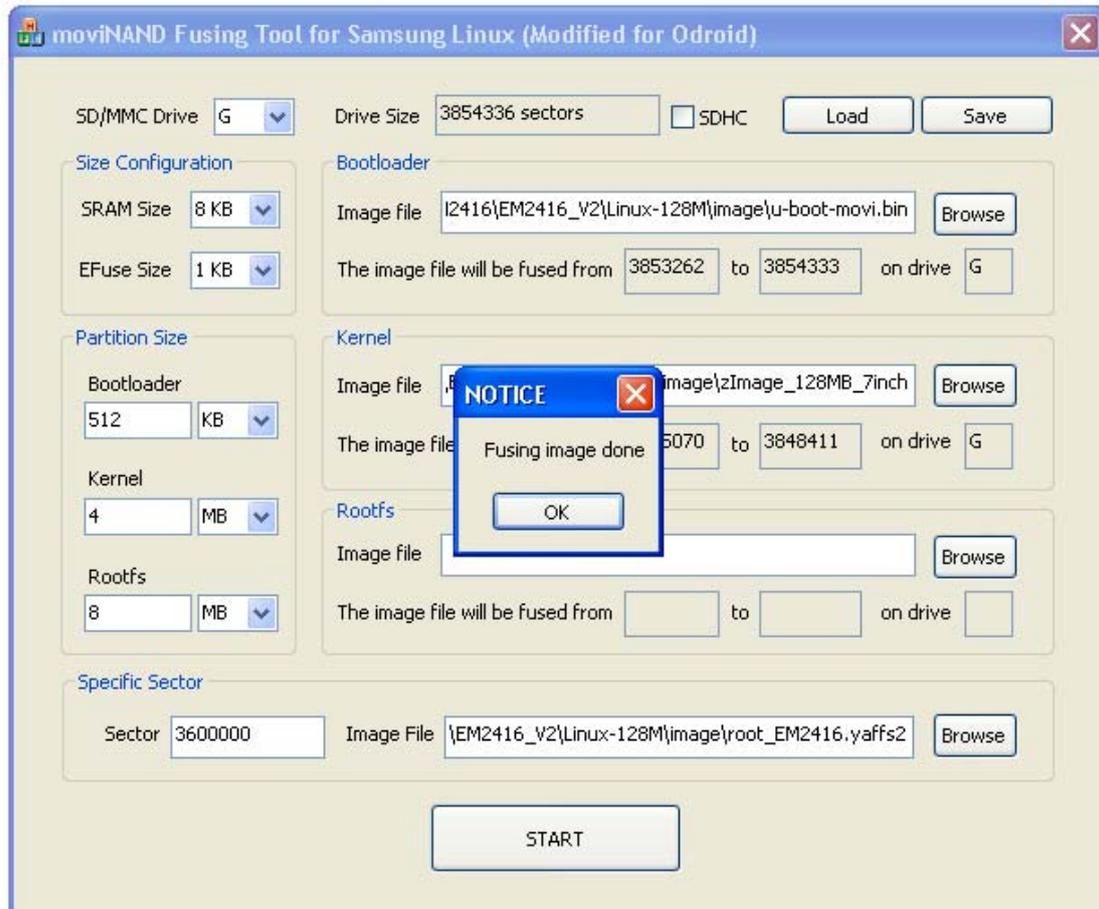
### Step 3: Select SD/MMC Drive.

Select image file `u-boot-movi.bin` by Browse in Bootloader group.

Select image file `zImage` by Browse in Kernel group.

Select image file `root_EM2416.yaffs2` by Browse in Specific Sector group, and input `3600000` in the Sector.

**Step 4: Click START button, the images will be fused to SD card as show bellow.**

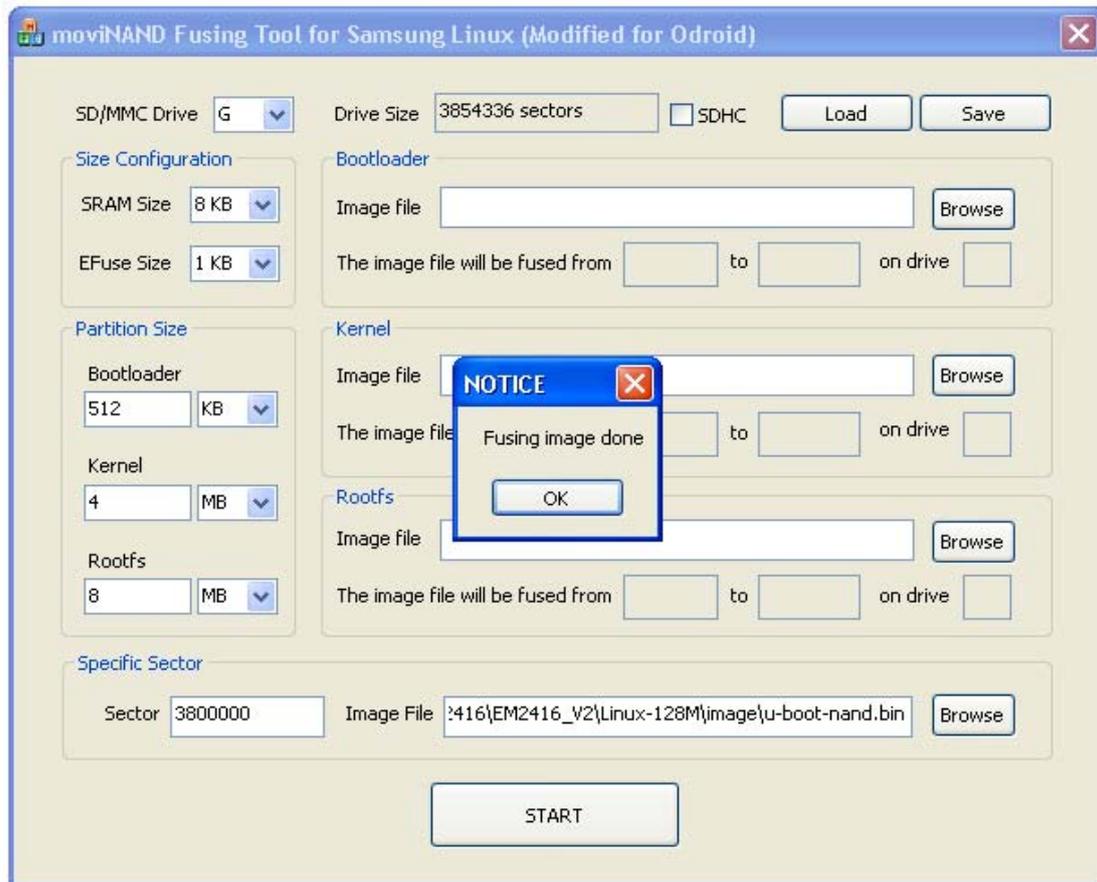


**Step 5: Close uboot\_writer.exe, and reopen it.**

Select **SD/MMC Drive**.

Select image file **u-boot-nand.bin** by Browse in Specific Sector group, and input **3800000** in the Sector.

**Step 6: Click START button, the u-boot-nand.bin will be fused to SD card as show bellow.**



## 2 Burn image by SD card

**Step 1: Set the board to SD card boot mode by boot mode switcher beside the audio interface.**

**Step 2: Turn on power and press any key in the console within 3 seconds to enter the uboot command mode.**

**Step 3: Scrub and erase the nand flash.**

**# nand scrub**

**# nand erase**

**Step 4: Burn u-boot-nand.bin to nand flash.**

**# movi read 3800000# 40000 c0000000**

**# nand write.jffs2 c0000000 0 40000**

**Step 5: Burn zImage to nand flash.**

**# movi read kernel c0000000**

**# nand write.jffs2 c0000000 40000 200000**

**Step 6: Burn rootfs to nand flash.**

**# movi read 3600000# 3C65040 c4000000**

**# nand write.yaffs c4000000 400000 3C65040**

**Note:** the parameter 3C65040 is the actual size of the rootfs image.



**Step 7: Set the board to nand flash boot mode by boot mode switcher beside the audio interface, image burning finished.**