

Firmware Burning Manual

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Waveshare Electronics

www.wvshare.com

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Version update records

Version	Date	Description
V1.0	2014.04.12	Initial Release

Contents

Copyright Statement	I
Version update records	I
1.Burning firmware under Windows	1
1.1TF card firmware burning.....	1
1.2Nand firmware burning.....	2
2.Burning firmware under Ubuntu	2
2.1 TF card firmware burning.....	2
2.2 Nand firmware burning.....	3

1. Burning firmware under Windows

Download corresponding firmware XXXX.img on

<http://dl.cubieboard.org/parteners/waveshare/Image/>

If it is .gz format, use Unzipped tool to extract in windows, get XXXX.img after extract.

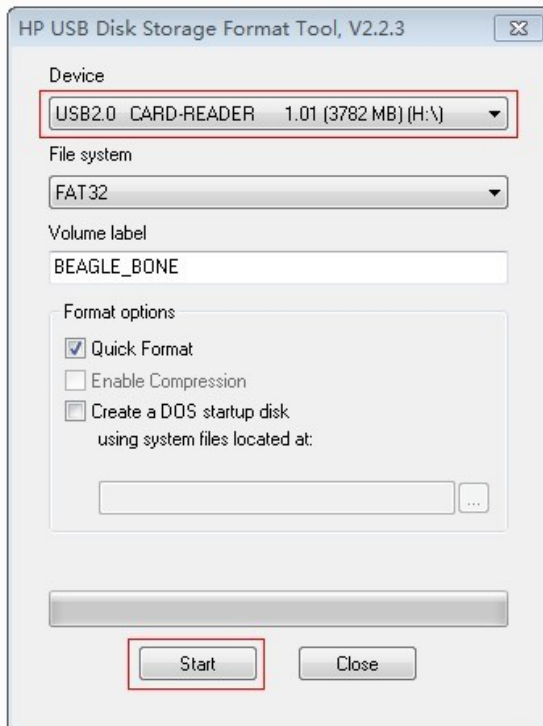
Note: "XXXX" refers to default firmware name, user can program different firmware according to demand.

1.1 TF card firmware burning

1) Formating TF card

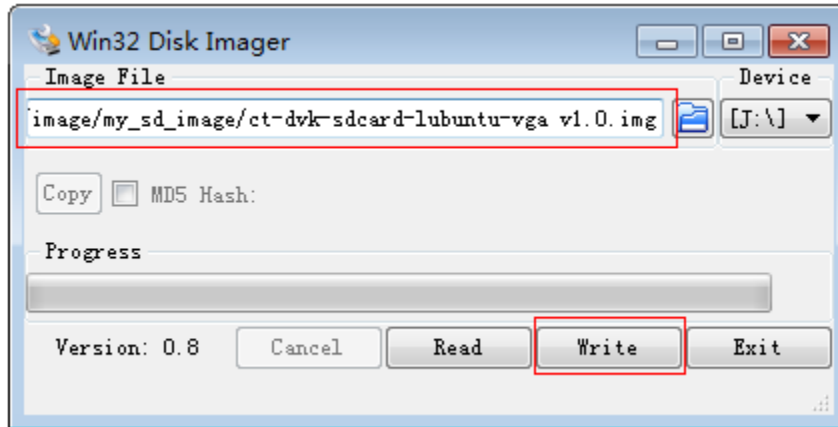
Connect the TF card to PC via a USB card reader, using HPUSBDisk.exe to format TF card.

Note: TF card capacity size depends on size of the firmware.



2) Burning firmware

Launch Win32DiskImager.exe, select the extracted firmware, click "write" to program. When finished, remove the TF card.



1.2 Nand firmware burning

1) Installing software

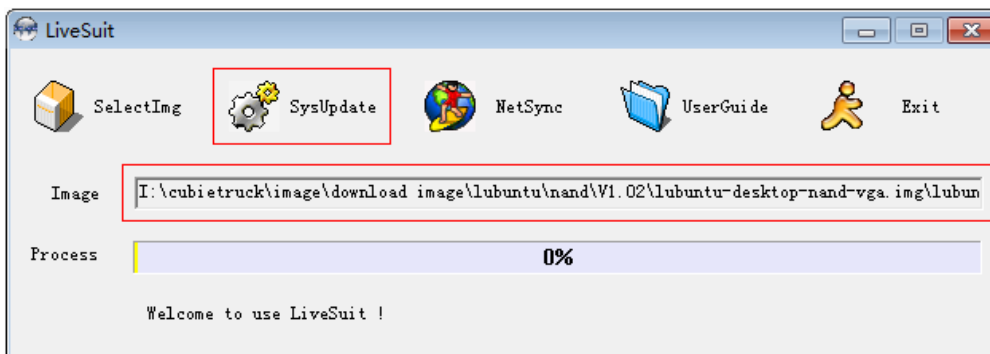
Download LiveSuitePack.exe on

<http://dl.cubieboard.org/software/tools/windows/>,

copy it to local directory D:/tools, double click to install. LiveSuit.exe, generated in the directory after the installation.

2) Burning firmware

Connect the device to PC via USB cable, open LiveSuit.exe after successfully connected, select "SysUpdate" to complete the firmware updating.



Detail usage of LiveSuit please refer to "LiveSuit-User-Guide-EN".

2. Burning firmware under Ubuntu

2.1 TF card firmware burning

Connect the TF card to ubuntu system of the PC via a USB reader card. The system will recognize two partitions sdX and sdX1. Execute corresponding command for programming:

Note: ubuntu might mount TF card automatically, be sure to unmount before burning.

Reference command: `umount /media/xx` (xx is corresponding mounted directory) .

1) Unzipping

```
#gzip -d XXXX.img.gz
```

2) Burning

```
#dd if= XXXX.img of=/dev/sdX bs=1M
```

2.2 Nand firmware burning

Download corresponding software tools: LiveSuitV305_For_Linux32.zip or LiveSuitV305_For_Linux64.zip on <http://dl.cubieboard.org/software/tools/livesuit/>:

1) Installing software:

```
#unzip LiveSuitV305_For_Linux32.zip
```

```
#cd LiveSuit_For_Linux32
```

```
#chmod +x LiveSuit.run
```

```
#!/LiveSuit.run
```

If an error occurs and a message for installing dkms, then install as follow:

```
#apt-get install dkms
```

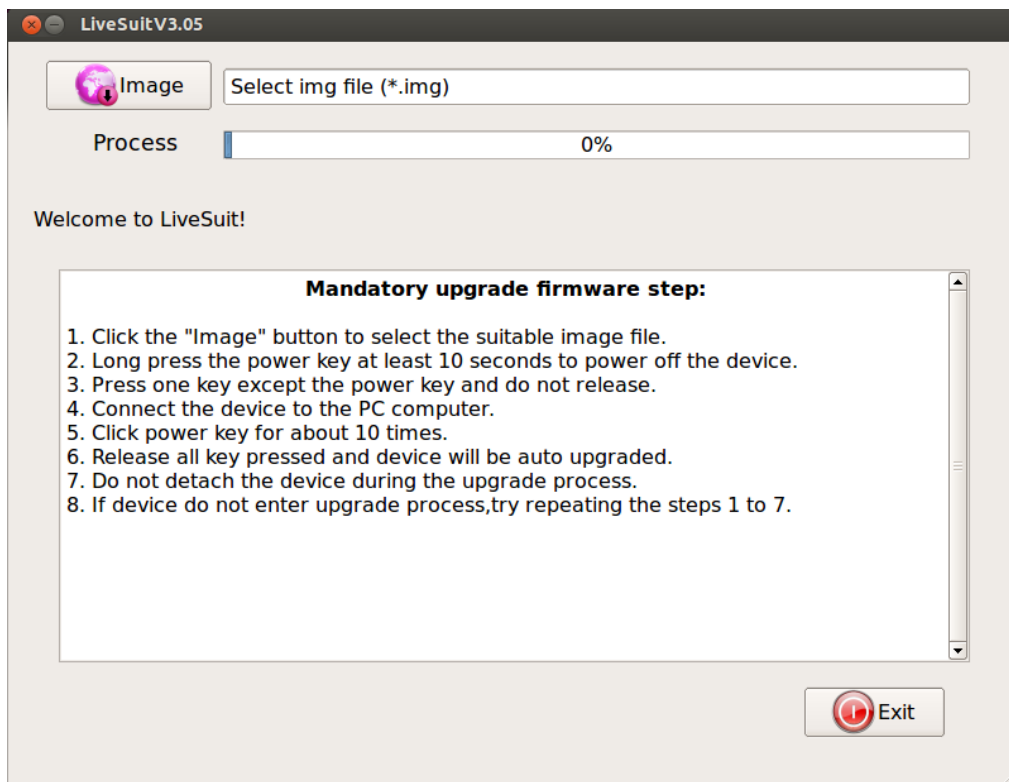
When finished re-execute the following commands:

```
#!/LiveSuit.run
```

2) Burning firmware

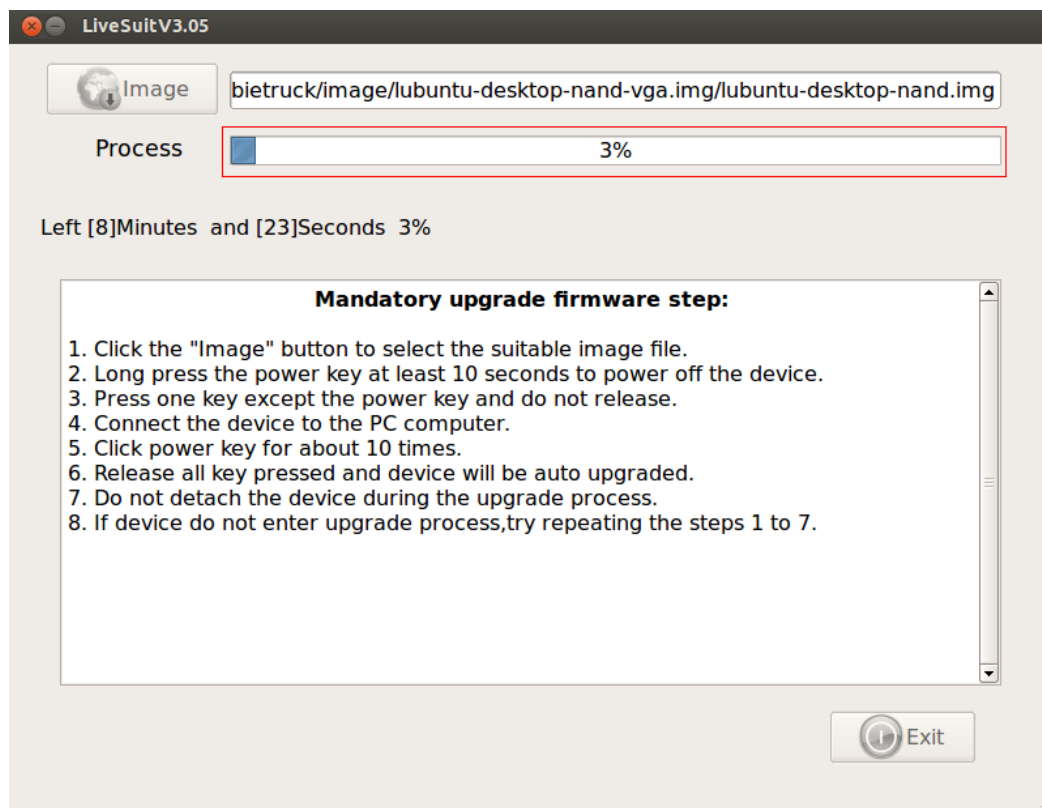
Execute the following demands to open the software:

```
#~/Bin/LiveSuit/LiveSuit.sh
```



Select the firmware, press and hold the key FEL. Connect PC to the onboard OTG

interface via a mini USB cable. Select "yes" when there is "Format" dialog box, release key FEL and start burning:



Finished burning:

