Firmware Upgrade - Multi boot support User Manual - 2019

- RDK- Broadband Image Flashing in SDcard Steps
- RDK- Video Image Copying in SDcard Steps
- Switching to RDK-Video Image from RDK-Broadband



Introduction-Mulitboot

This page is dedicated for switching the images (broadband to video) specifically for techsummit-2019

RDK- Broadband Image Flashing in SDcard Steps

1. Flash the Broadband image in SD card

Image Flashing Command

sudo dd if=<RPIimage-sdimg> of=</dev/sdc> bs=4M

Example: sudo dd if=rdk-generic-hybrid-refapp-thunder-image_default_20190829072513.rootfs.rpi-sdimg of=/dev/sdc bs=4M

- 2. Resizing and partition creation
 - Use Gparted tool for resizing and partition creation by using the following link
 Partioning and Resizing using GParted GUI

RDK- Video Image Copying in SDcard Steps

- 3. Keep RDK-Video image in the host machine
- 4. Extracting the RDK-Video image into the extblock directory

video data extract

```
sudo sh extract.sh <video-image file>
For ex. sudo sh extract.sh rdk-generic-hybrid-refapp-thunder-image_default_20190924125426.rootfs.rpi-sdimg
```

After executing the above script, Linux kernel and RootFS of RDK-Video image would be present in the extblock directory

- 5. To Copy the RDK-Video image in Partition-P4
 - Create mount directory and execute mount for the partition 4

video data extract

For ex. mkdir videomnt sudo mount /dev/sdb4 videomnt

In above command, storage partition 4 will get mounted to videomnt directory

• Copy the RDK-Video image which is present in the extblock

video data extract

sudo cp -r extblock/v* videomnt/

6. Copy the vrootfs backup data into partition 4 storage bank, to ensure it will acts as video bank as well

video data extract

sudo cp -r extblock/vrootfs_backup_data/* videomnt/

7. Unmount videomnt directory as below

video data extract

sudo umount videomnt

Switching to RDK-Video Image from RDK-Broadband

- 8. Now Boot up the SD card in RPI-> it should come up with BB image in partition (P2)
- 9. Log into the R-Pi from Host PC execute the below command

ssh root@<RPI-Board IP>

10. To load the video image which is present in the storage execute the script bank_video_switch.sh

Switching to Video Image

root@RaspberryPi-Gateway:/lib/rdk# sh bank_video_switch.sh

11. R-Pi should boot up with video image. Ensure that the ethernet connection is available for R-Pi.

NOTE:

Ensure that while mounting the SD card in host machine it may have different device names like /dev/sdc * and /dev/sdd * . Please check host machine accordingly while using device name.