How to Flash Sparky eMMC with the help of linux loaded SD card

This instruction useful for users who are aware of basic Linux commands.

Also care should be taken while inserting SD card in to the Alu Case slot. Align it properly and insert.

1) First boot the sparky with dietpi or any linux version of Sparky, working eMMC should be available on emmc slot of Sparky.
   Note : by default sparky boots from SD card if SD and eMMC are present on sparky.

2) Check the devices with fdisk -l command.
   /dev/mmcblk0 is the first boot device , here it is SD card
   /dec/mmcblk1 is the 2nd device (emmc) available on system

3) Copy the New downloaded image to the SD card /home folder.
   (With the help of winscp or from USB pen drive)
   Normal extracted size of dietpi images are nearly 2GB. Assume on SD card >5GB free size available normally.
   Extract the 7z file
   7z e filename.7z

Example shows sparky unit booted from 8GB Sd card , and inside system used 8GB eMMC, actual units uses 16GB or higher size eMMC. So from the size you can differentiate the eMMC and SD card.

```
root@DietPi:~# fdisk -l
Disk /dev/mmcblk0: 7.4 GiB, 7948206080 bytes, 15523840 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x3cad75b6

Device         Boot  Start      End  Sectors  Size Id Type
/dev/mmcblk0p1       16384   114687    98304   48M  6 FAT16
/dev/mmcblk0p2      114688 15523839 15409152  7.4G 83 Linux


Disk /dev/mmcblk1: 7.2 GiB, 7734296576 bytes, 15106048 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x3cad75b6

Device         Boot  Start      End  Sectors  Size Id Type
/dev/mmcblk1p1       16384   114687    98304   48M  6 FAT16
/dev/mmcblk1p2      114688 15106047 14991360  7.2G 83 Linux
```

4) Using linux dd command copy the Image to emmc (mmcblk1)
   Example : command below for copy the latest dietpi image flash to

   root@DietPi:/home# **dd if=DietPi_v6.1_SparkySBC-ARMv7-Stretch_AlloGUI-v5.img of=/dev/mmcblk1**

```
root@DietPi:/home# ls
dietpi  DietPi_SparkySBC-ARMv7_V6.7z  DietPi_v6.1_SparkySBC-ARMv7-Stretch_AlloGUI-v5.img
root@DietPi:/home# dd if=DietPi_v6.1_SparkySBC-ARMv7-Stretch_AlloGUI-v5.img of=/dev/mmcblk1
3801088+0 records in
3801088+0 records out
1946157056 bytes (1.9 GB, 1.8 GiB) copied, 290.145 s, 6.7 MB/s
root@DietPi:/home#
```

Switch off the unit , remove sd card and boot with eMMC.