

GT King/GT King Pro

Under construction



There are multiple ways to do this. It is advisable to already be extremely familiar with flashing Android firmwares onto ARM-based TV boxes, as a lot can go wrong and it's very easy to end up with a bricked device. Be weary.

Big alert box to make you aware that there is a very high chance of bricking the device when attempting this. Once done there is no way to go back to how it came from the factory.

Method 1: Flash using the GT King itself booted into CoreElec

The GT King/King Pro comes with an 8GB SD card. It is recommended to throw this out and buy a new SD card that's at least 16GB for use with Batocera, as that satisfies the minimum size requirements if you need to use the card itself for Batocera. It may not be required, depending on your box. It is possible to flash over the firmware from the old card to the new one if desired, but here we will be using CoreElec.

1. Boot into CoreElec and copy the Batocera image over to somewhere easily accessible. The "storage" folder is recommended.
2. Connect to the box via SSH.
3. Run `ls`. This will show the current directory, which can be used to confirm that the Batocera image was copied over correctly. In this example, the image is `batocera-s922x-gtkinpro-33-20220203.img`.
4. Then run `parted -l` to see the partitions of the current drive. Note down which partition contains the 62.5GB internal storage (its "model" will appear as `MMC_CJNB4R`) and its mounted location. In this example, `/dev/mmcblk0`.

```
#####
#                               #
#      CoreELEC                 #
#      https://coreelec.org     #
#                               #
#####

CoreELEC (official): 9.2.8 (Amlogic-ng.arm)

CoreELEC:~ # ls
backup      lost+found  pictures    tvshows     SD CARD COREELEC
bato.img    music       screenshots videos       PARTITIONS
CoreELEC:~ # parted -l
Model: SanDisk SDDR-B531 (scsi)
Disk /dev/sda: 15.9GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

Number  Start   End     Size    Type    File system  Flags
  1      4194kB  541MB   537MB   primary fat16        boot, lba
  2      541MB   15.9GB  15.4GB   primary ext4

Error: /dev/mmcblk0rpm0: unrecognised disk label
Warning: Error fsyncing/closing /dev/mmcblk0rpm0: Input/output error
Retry/Ignore? i
i
Model: Generic SD/MMC Storage Card (sd/mmc)
Disk /dev/mmcblk0rpm0: 4194kB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

Error: /dev/mmcblk0boot0: unrecognised disk label
Model: Generic SD/MMC Storage Card (sd/mmc)
Disk /dev/mmcblk0boot0: 4194kB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

Error: /dev/mmcblk0boot1: unrecognised disk label
Model: Generic SD/MMC Storage Card (sd/mmc)
Disk /dev/mmcblk0boot1: 4194kB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

Error: /dev/mmcblk0: unrecognised disk label
Model: MMC CJNB4R (sd/mmc)
Disk /dev/mmcblk0: 62.5GB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

CoreELEC:~ #
```

**WARNING!!!
DON'T TOUCH
THIS PARTITIONS AT ALL**

**INTERNAL STORAGE/EMMC
BLOCK
CHOOSE THIS BLOCK TO INSTALL
BATOCERA.IMG**

Going beyond this point it is possible to brick the device. Be 100% sure that all the information is correct and that you are aware of the risks.

- Once you have confirmed that the image is present and the correct internal eMMC block to install into, run the following command:

```
dd if=<path/to/image/file> of=<path/to/internal/emmc> bs=1M && sync
```

- In this example:

```
dd if=batocera-s922x-gtkinpro-33-20220203.img of=/dev/mmcblk0
bs=1M && sync
```

```
CoreELEC:~ # dd if=bato.img of=/dev/mmcblk0 bs=1M && sync
2018+0 records in
2018+0 records out
2116026368 bytes (2.0GB) copied, 41.270294 seconds, 48.9MB/s
CoreELEC:~ #
```

**BATOCERA.IMG INSTALLED INTO
INTERNAL EMMC**

6. Confirm that the Batocera image has been flashed by running parted <path/to/internal/emmc> print:

```
CoreELEC:~ # dd if=bato.img of=/dev/mmcblk0 bs=1M && sync
2018+0 records in
2018+0 records out
2116026368 bytes (2.0GB) copied, 41.270294 seconds, 48.9MB/s
CoreELEC:~ # parted /dev/mmcblk0 print
```

```
Model: MMC CJNB4R (sd/mmc)
Disk /dev/mmcblk0: 62.5GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:
```

Number	Start	End	Size	Type	File system	Flags
1	4194kB	3225MB	3221MB	primary	fat32	boot, lba
2	3225MB	3762MB	537MB	primary		

**NEW PARTITIONS MADE BY BATOCERA
INSTALL CAN NOW
BE LISTED ON INTERNAL EMMC/STORAGE**

```
CoreELEC:~ #
```

7. Power down the device and remove the CoreElec SD card.

Booting into Batocera after using method 1

You have successfully flashed Batocera onto the internal storage. But now we need to boot it. Depending on the exact box, there could be various additional steps required. Try the following in the order specified:

1. Just boot it up again. If it fails to boot, move onto the next step.
2. While it is disconnected to the power, press the tv box reset button. While keeping it pressed down, connect the power. Once you see the Batocera splash screen, it is okay to release the button. If Batocera still does not boot, move onto the next step.
3. Flash Batocera to the SD card, insert it into the box and repeat step 2.

If it still fails after this... RIP. You were warned.

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