

# Preparing a memory card



Here are the minimum requirement of the operating system.

- Ubuntu Minimal EmulationStation: At least **4 GB** is recommended.

To insert a memory card into your computer, you need a **memory card reader** to work with that.

You can purchase **OS preinstalled** microSD cards from <https://www.hardkernel.com/product-category/memories/>.

When you choose a memory card, please keep in mind that you should **check the product name carefully** to choose a proper memory card for your board.

## Download OS image

### Ubuntu minimal EmulationStation image

For OGA-BE, please use **Ubuntu 20.04 ES Image**.

If you want to use Ubuntu 19.04 ES Image, please follow this setup instruction. [https://wiki.odroid.com/odroid\\_go\\_advance/build\\_kernel#base\\_os\\_image](https://wiki.odroid.com/odroid_go_advance/build_kernel#base_os_image)

Ubuntu 18.04 ES Image doesn't support OGA-BE functionality.

Release versions	Downloads	Release-notes	Description
temporary	Ubuntu 20.04 ES image : <a href="#">KR</a> <a href="#">US</a>	<a href="#">release-notes</a>	Add support for <b>OGA Rev1.1</b>
v1.1	Ubuntu 19.10 ES image : <a href="#">KR</a> <a href="#">US</a>	<a href="#">release-notes</a>	

Release versions	Downloads	Release-notes	Description
v1.0	Ubuntu 18.04 ES image : <a href="#">KR</a> <a href="#">US</a>	<a href="#">release-notes</a>	The First Release

# Installation

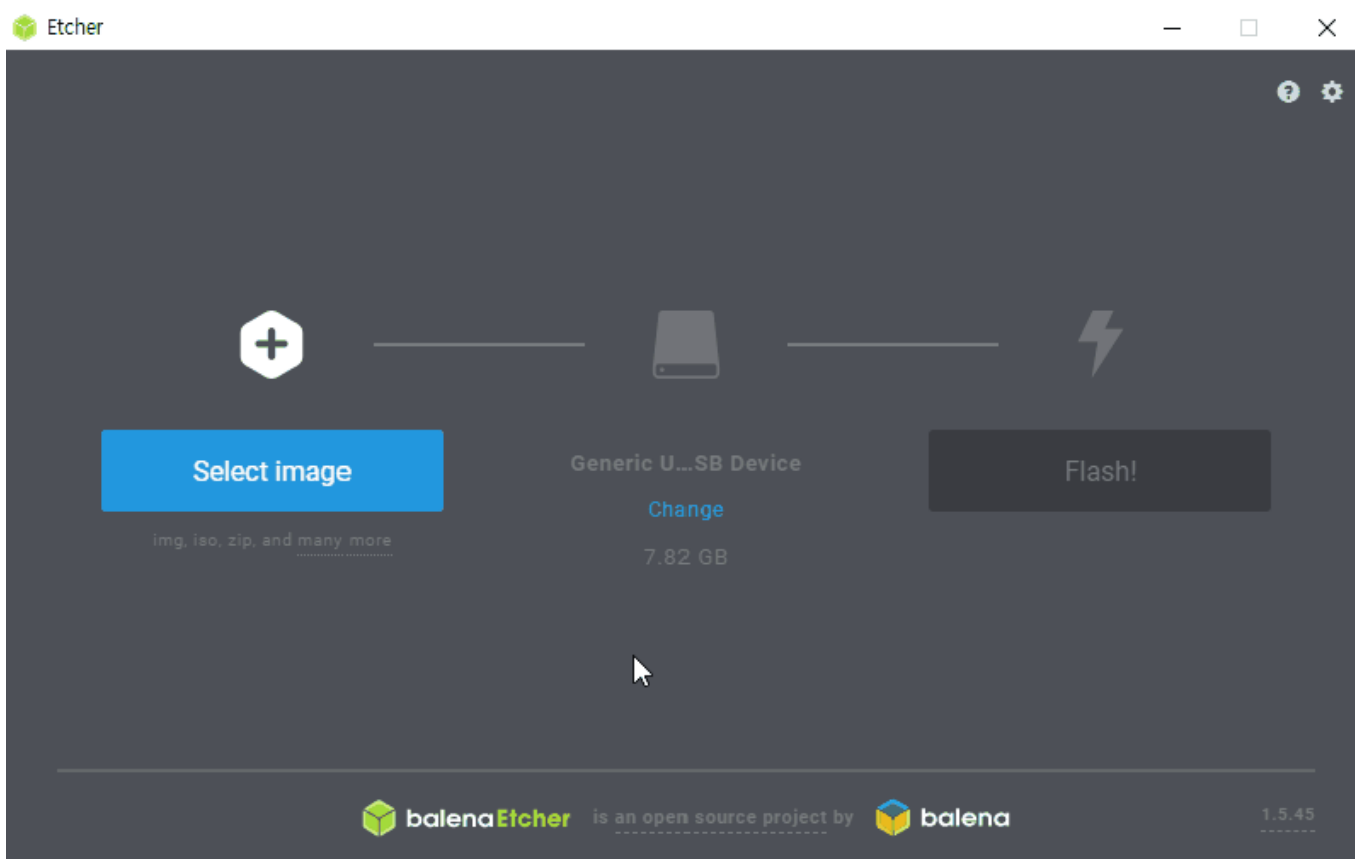
## Download Etcher

You can easily flash an image to your memory card using Etcher.

Download Etcher here: <https://www.balena.io/etcher/>

## Flash the image

1. Open Etcher.
2. Select the downloaded OS image.
3. Select the inserted memory card. (Normally, the memory card is detected automatically.)
4. Click Flash!



# Partition Layout of SD Card

partition	start		size		note
	sector	bytes	sector	bytes	

partition	start		size		note
<b>mbr</b>	0	0	1	512 bytes	-
<b>idbloader (+ reserved)</b>	64	32 kB	8191	4 MB - 512 byte	idbloader.img
<b>uboot</b>	16384	8 MB	8192	4 MB	uboot.img
<b>trust</b>	24576	12 MB	8192	4 MB	trust.img
<b>BOOT (vfat)</b>	32768	16 MB	229376	112 MB	/dev/mmcblk1p1
<b>rootf (ext4)</b>	262144	128 MB	-	-	/dev/mmcblk1p2

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