

## Ultra96-V2: Write the microSD Card Factory Image



/ **ULTRA96**



11 June 2019

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## Overview

The Ultra96-V2 ships with a blank microSD Card. For initial setup or if the microSD card has been erased or reprogrammed, then use this tutorial to restore the microSD card to the latest factory image.

## Experiment Setup

### Software

The software required for this tutorial is:

- Etcher -- <https://etcher.io/>
- Decompression utility, such as 7-zip

### Hardware

The hardware setup used to test this reference design includes:

- Host machine compatible with Etcher
- 16 GB microSD card
- microSD adapter (to full-size SD or USB) that is compatible with your host machine
- Ultra96-V2
- 96Boards Power Adapter, such as Avnet AES-ACC-U96-4APWR

## Instructions

The following procedure will write the Ultra96-V2 16GB microSD card with the latest factory image.

**WARNING** – This procedure will erase everything on the microSD card, so backup anything important prior to running performing this operation.

1. Download the image archive from <http://avnet.me/ultra96-v2-oob>
2. Decompress the archive to extract the .img file. You should have a file named ultra96v2\_oob\_2018\_3\_yymmdd.img where *yymmdd* is the datecode of the image. The extracted image should be around 16,022,241,280 bytes large.
3. Download Etcher for your host at <https://etcher.io/> and install it.
4. Launch Etcher

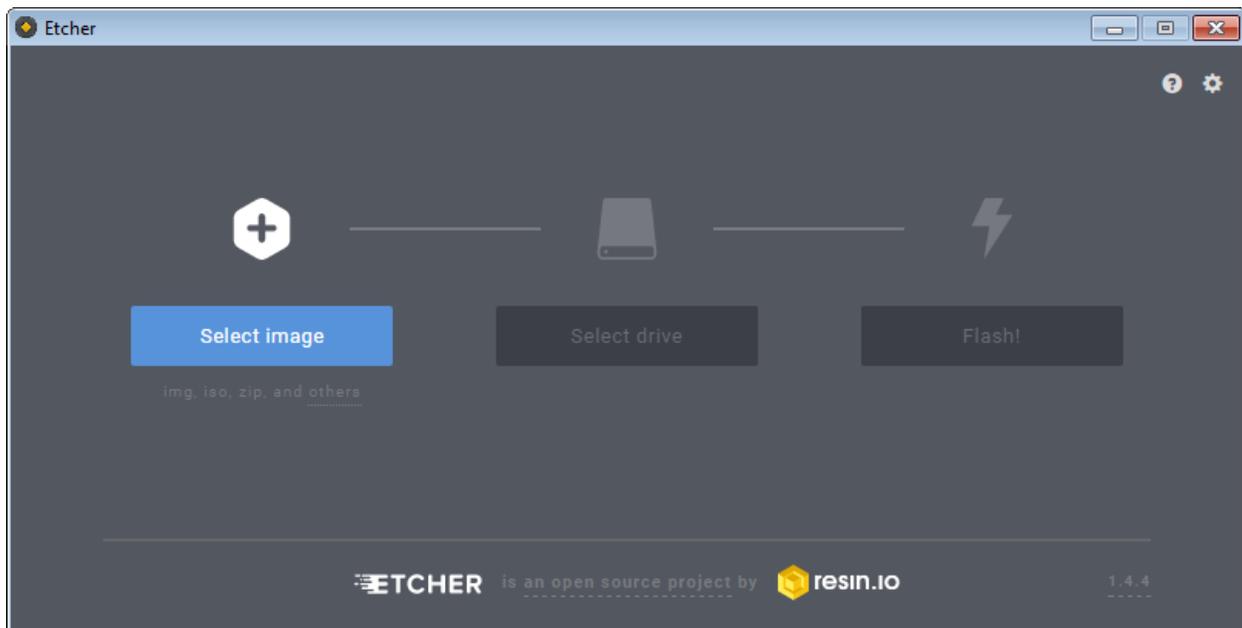


Figure 1 – Etcher Launched

5. Click **Select Image**. Browse to the `ultra96v2_oob_2018_3_yymmdd.img` previously extracted and click **Open**.

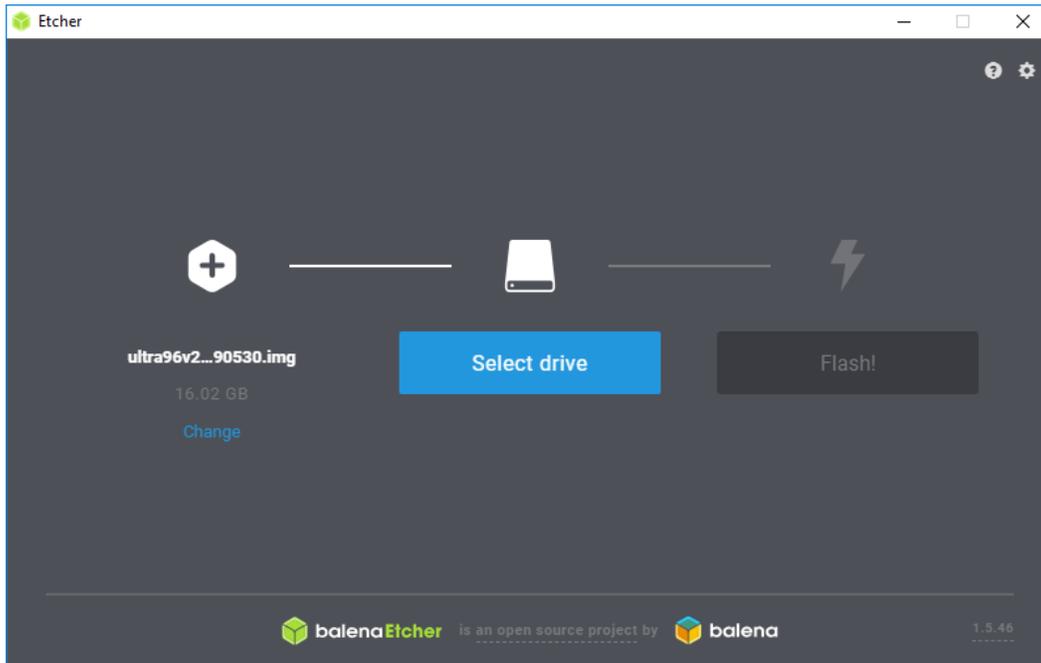


Figure 2 – Etcher with Ultra96-V2 Image Loaded

6. Plug in the microSD card + adapter into your host and note the drive letter. Etcher may find your drive automatically. If not, click **Select Drive** and browse to the drive letter for your microSD card.

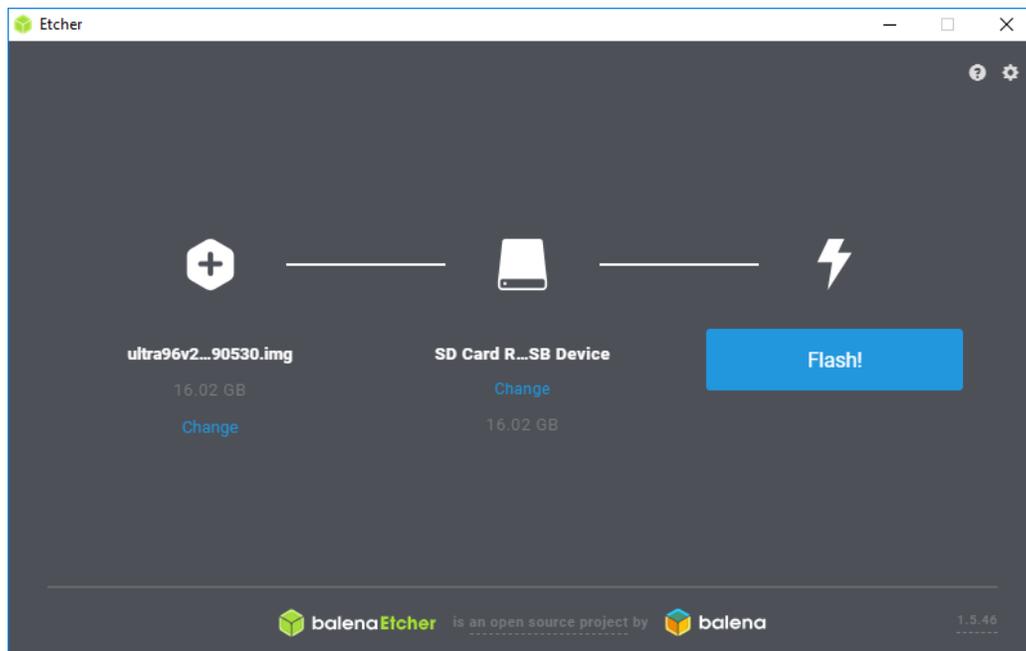


Figure 3 – Drive Selected in Etcher

WARNING – This procedure will erase everything on the microSD card, so backup anything important prior to running performing this operation.

7. Click **Flash!** to flash the microSD card.

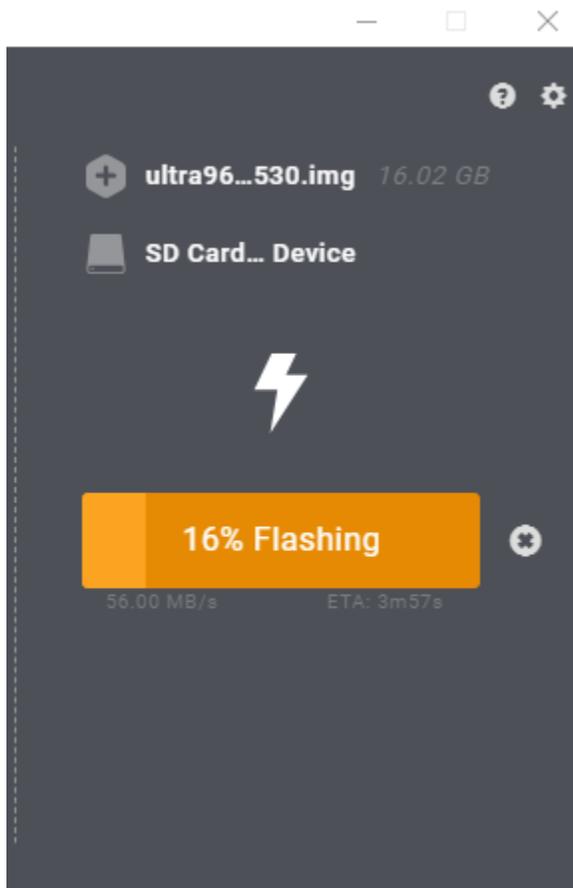


Figure 4 – Flashing in Progress

When complete, Etcher will display “Flash Complete!”

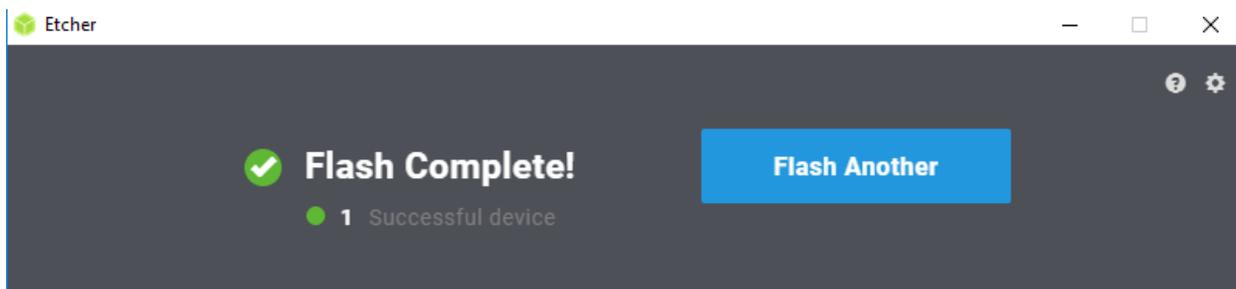


Figure 5 – Flashing Complete

## Conclusion

Once the microSD card is written, refer to the **Ultra96-V2 Getting Started Guide** for additional exercises. See [www.avnet.me/ultra96-v2](http://www.avnet.me/ultra96-v2) → **Documentation**

# Revision History

Date	Version	Revision
11 Jun 2019	01	Initial version