

## OS Recovery Upgrade

A recovery upgrade of allows you to do a complete install of the software in the event that the system becomes unresponsive and cannot be upgraded normally.

To complete this procedure you will need a bootable microSD™ or microSDHC™ card with the latest recovery software (your switcher should have come with one installed), to create an upgrade USB with the latest switcher software, and then boot the switcher from the recovery microSD™ memory card.

microSD™ and microSDHC™ are trademarks of SD-3C, LLC.

## To Create a Bootable Memory Card

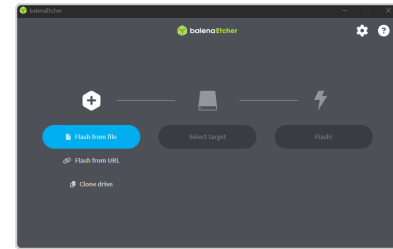
The bootable memory card replaces the internal memory of the switcher to provide a temporary bootable operating system.

**Note:** The Ultra switchers come with a microSD™ memory card installed. You only need to create a new bootable memory card if the existing one is missing or has become corrupted. Before creating a new bootable memory card, check if the existing memory card is installed. If the existing memory card is installed but the recovery upgrade process fails, it may have become corrupt and needs to be re-imaged.

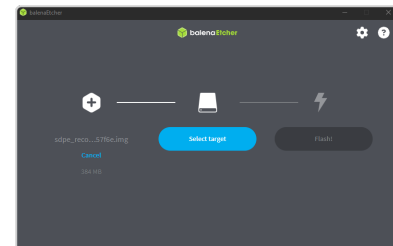
To create the bootable memory card you need the following:

- A PC with a microSD™ card reader.
- A blank microSD™ or microSDHC™ card of at least 128MB.
- The ultra-recovery-xx.img recovery image file from Ross Technical Support.
- A disk imaging utility. We recommend Balena Etcher.

1. Save the recovery image file to your PC.
2. Insert the blank microSD™ memory card into the card reader of your PC.
3. Start Balena Etcher imaging utility and select the image and target you want to flash the image onto.

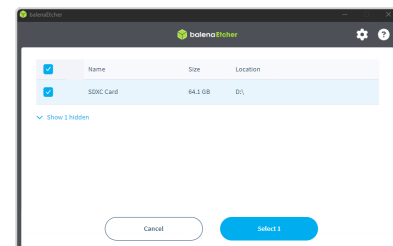


4. Click **Flash from file** and select ultra-recovery-xx.img recovery image.

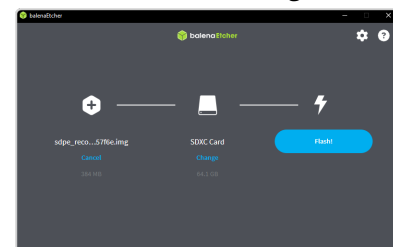


5. Click **Select target** and select the microSD™ you want to flash.

**Tip:** You can flash more than one microSD™ at a time if you multiple card readers.



6. Click **Flash!** to flash the image to the disk.



## To Create an Upgrade USB

The recovery USB drive is a blank USB that contains the latest Carbonite software upgrade file.

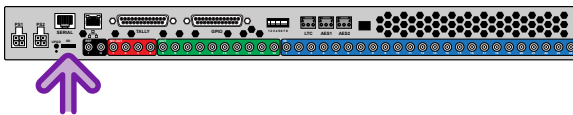
To create the recovery USB drive you need the following:

- A blank USB drive of at least 2GB.
  - The upgrade-xxxx.ultra file.
1. Ensure that the USB drive is blank. You may have to re-format the drive if necessary.
  2. Copy the upgrade file to the root directory of the USB drive.

## To Perform a Recovery Upgrade

The recovery upgrade forces the switcher to boot from the microSD™ memory card

1. Power off the switcher.
2. Insert the recovery microSD™ memory card into the **SD** port on the back of the switcher.



3. Insert the upgrade USB drive into the USB port on the switcher.
4. Press and hold the recessed **UPGRADE** button and power on the switcher.



The switcher will boot from the recovery microSD™ memory card and perform an upgrade from the USB.

5. Once the upgrade has completed, perform another standard upgrade.

**Note:** As of recovery image 187, logs of the upgrade are stored on the upgrade USB.