

Replicate an ESPRESSObin Ultra Installation

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TRACKED CHANGES

DATE	REVISION	PAGES AFFECTED
28 Apr 2022	00	Initial draft

1. Purpose of this document

The purpose of this document is to provide instructions for replicating a pre-configured ESPRESSObin-Ultra to a new ESPRESSObin-Ultra before Installation into a Cube by manufacturing. The ultimate goals are to enable more comprehensive end-of-line testing and dramatically reduce configuration time in the field.

This document is applicable to the Fluence internal project team and site contractors, including the latter's subcontractors, all of whom shall conform to its requirements, including the applicable implementing procedures identified herein, as well as to those standards and specifications found in other applicable contractual, engineering, quality assurance, procurement, construction, and commissioning documents.

2. PROCEDURE

- Use (or format) a bootable FAT32 USB drive 4GB+.
- Copy files from SharePoint, [Replicate an ESPRESSObin Ultra Installation](#) to the drive.
- Connect to ESPRESSObin-Ultra with a console cable (USB micro to USB A).
- Install USB into ESPRESSObin-Ultra.
- Boot ESPRESSObin-Ultra.
- Hit any key to stop autoboot (you have a few seconds).
- Boot from USB.
 - Marvell>> usb reset; fatload usb 0 \$loadaddr recovery.bin; source \$loadaddr
- After boot completed - press enter - to see command prompt.
- Mount usb.
 - # mount /dev/sda1 /media
- Run dd command to restore to eMMC disk. Note: This will take a long time.
 - # gzip -dc /media/ebinx-fluence-emmc.img.gz | dd of=/dev/mmcblk0; sync

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- After restore completed.
 - mount eMMC.
 - # mount /dev/mmcblk0p1 /mnt
 - Remove FLUENCE_INITIALIZED.
 - # rm /mnt/etc/FLUENCE_INITIALIZED
 - umount eMMC.
 - # umount /mnt
 - umount usb.
 - # umount /media
- Reboot the device.
 - # reboot