Procedure

A Guide on How to Change the BIOS Battery in a CDC five, six and seven-s fitted with a 19224 Power Distribution Board

Description

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Contact

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Introduction

This document is a guide on how to change the BIOS battery on the CDC five and seven-s plus the CDC sixes fitted with the later 19224 power distribution board. **IMPORTANT:** If you have a CDC seven or a CDC six fitted with the earlier 19196 power distribution board then please refer to the document "***A Guide on How to Change the BIOS Battery in a CDC six and CDC seven fitted with a 19196 Power Distribution***" which will guide you through the process of changing the battery.

This process **must** be carried out by qualified Cadac representatives.

Tools Required

You will require nonconductive tool to remove the battery from the holder.

You will require a replacement CR2032 3V Lithium battery. Example below:

A T-10 TORX driver will be needed to remove front panel screws:

USB Keyboard:

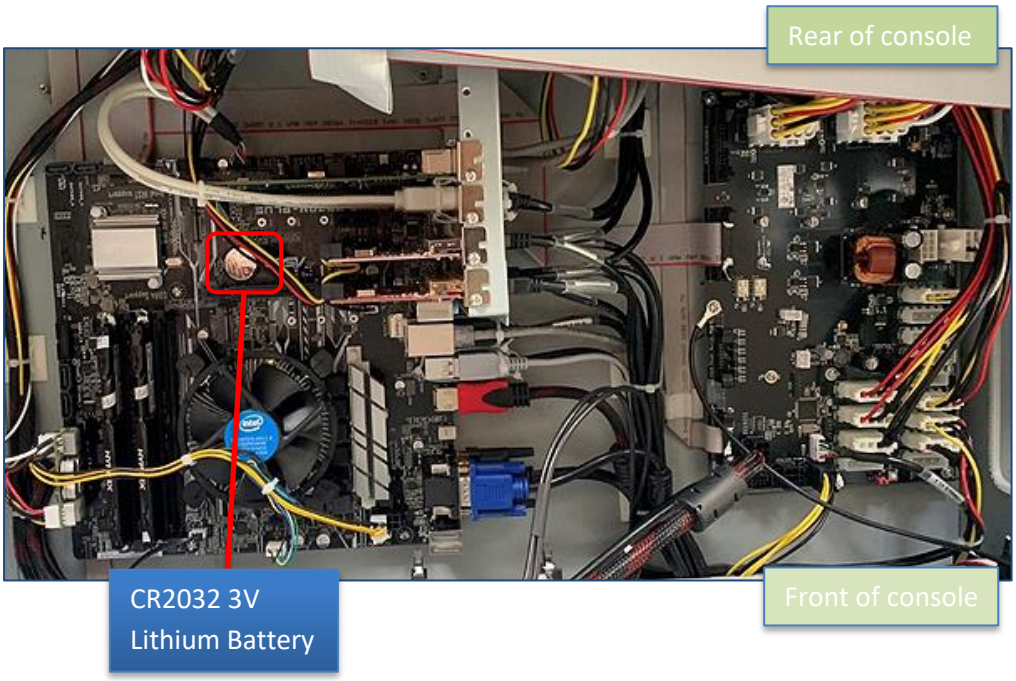
Changing the Battery

Power up the console and backup your console's show files to a USB memory stick. This process does not wipe the memory, but it is good practice to have a backup copy in case something goes wrong. **Power down** the console and unplug the unit from the mains supply.

To access the **battery,** it will require the unscrewing of all the retaining screws (**T-10 TORX**) on the panel containing the **large 23.5" screen. Note:** The battery on the CDC seven / seven-s is under the left-hand screen.

It is not necessary to remove the screen, but it is advisable to open and prop up the panel from the top, pivoting on the edge nearest the faders. A suitable length of wood (approx. 20cm) may be useful to hold open the panel to avoid having to close the panel, or holding, during the process.

Position of the battery on the PC motherboard:



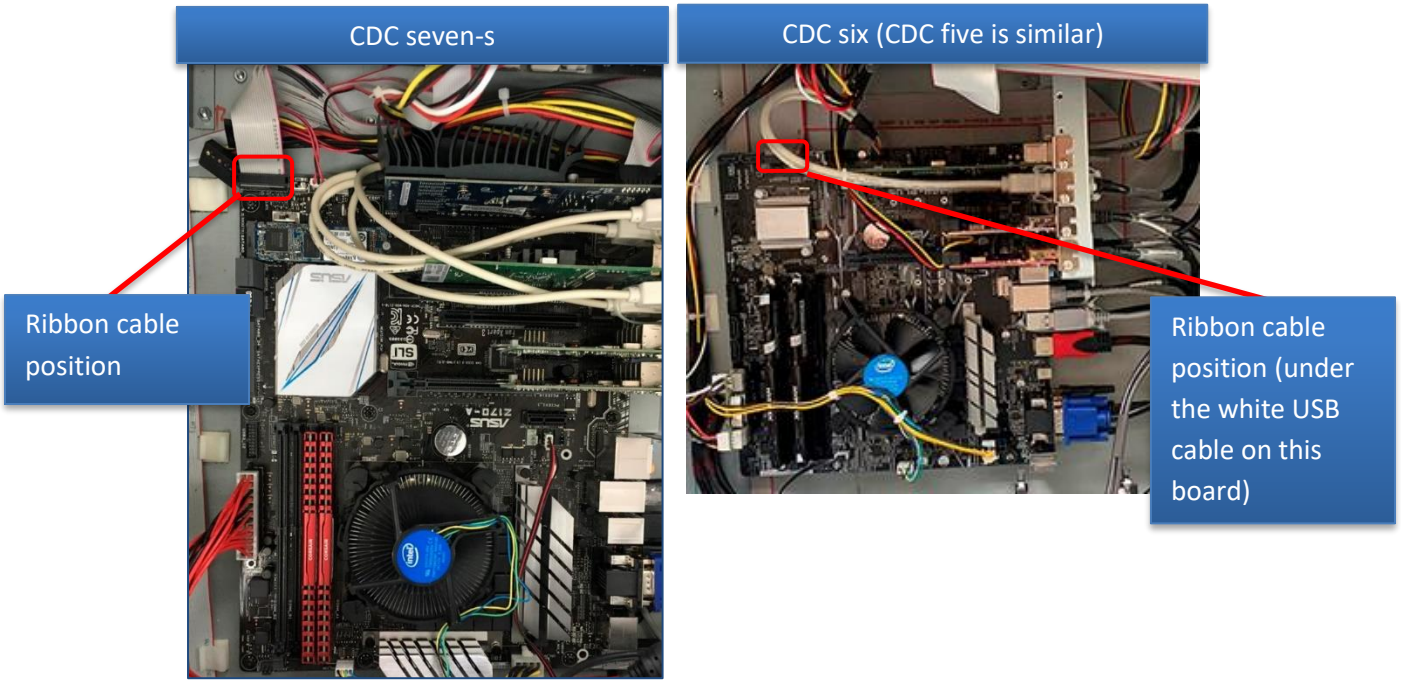
Use a suitable implement (non-conductive) to release the clip securing the old battery and remove it.

Fit the new CR2032 3V lithium cell battery; use a type which is a non-rechargeable, taking care not to insert the battery the wrong way around. Positive (+) terminal facing out.

Turning on the PC

For the BIOS to update, the computer must be disconnected from the power distribution board so that it cannot turn off the computer during the update procedure. To do this the ribbon cable attached to the motherboard from the power distribution board must be unplugged. ***Warning:*** This must be done while the console is still powered off.

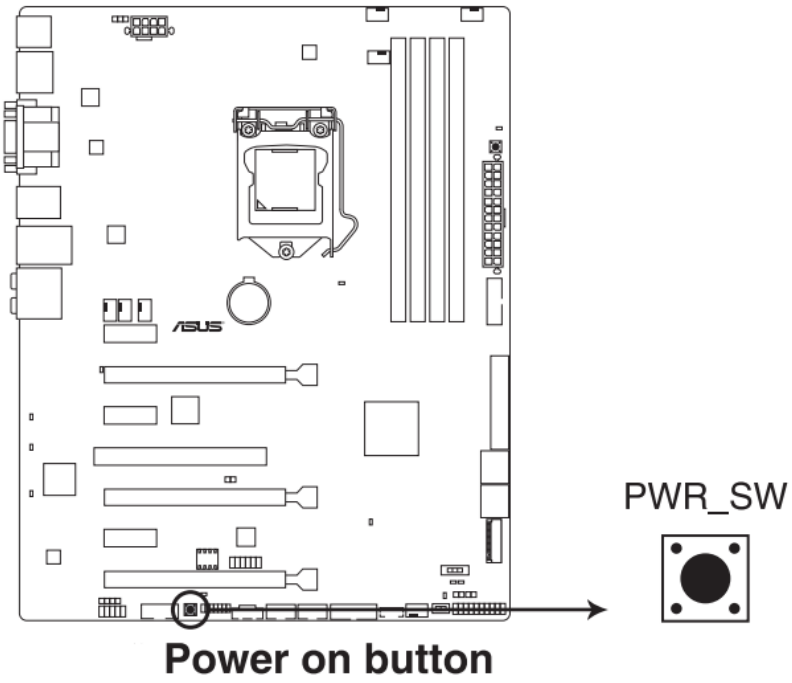
The image below shows the location of the ribbon cable on the different consoles:



Reconnect the console to mains / PSU and it can now be **powered ON** using the main power button on the front of the console.

CDC seven-s: ONLY

If you have a CDC seven-s then you now need to press the power button on the motherboard. It is slightly obscured by the graphics card, but reachable.

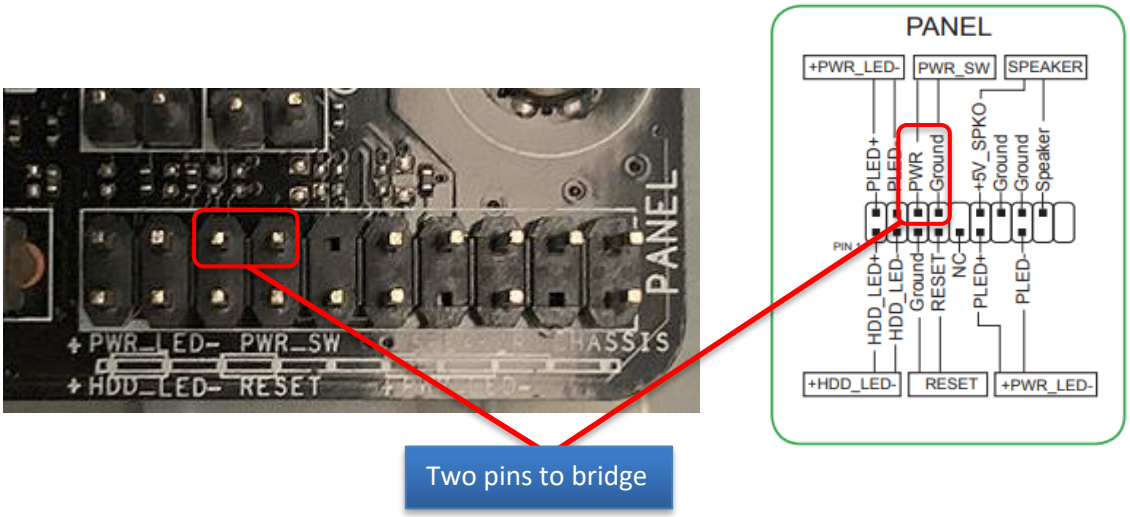


The computer will now start up.

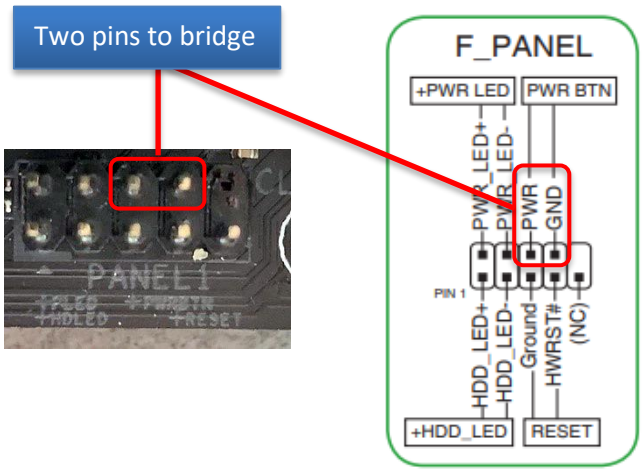
You will now need to set the BIOS. Go to page 8

CDC five and CDC six: ONLY

If you have a CDC five or CDC six, then you will need to “short” the power switch pins on the connector you removed the ribbon cable from. Use your TORX screwdriver to **very quickly** bridge the gap between the two pins show below:



NOTE: Some newer consoles may have the 10 way connector instead of the 20 way, in which case use your TORX screwdriver to **very quickly** bridge the gap between the two pins show below:



The computer will now start up.

You will now need to set the BIOS.

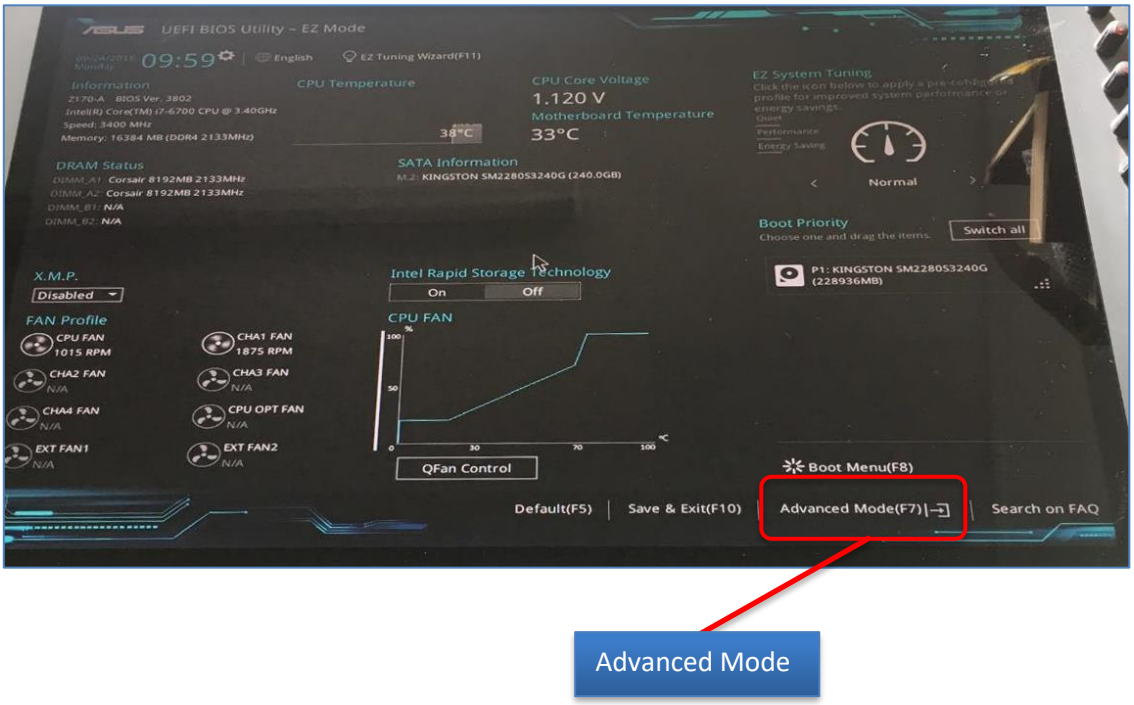
Access the BIOS Settings

Connect the USB keyboard to one of the USB ports on the console - there are a number of ports on the console which can be found on the front panel, near the headphone jack or on the rear panel.

To get into the BIOS press **F2** or **Delete** on the USB keyboard when the console is starting / booting up.

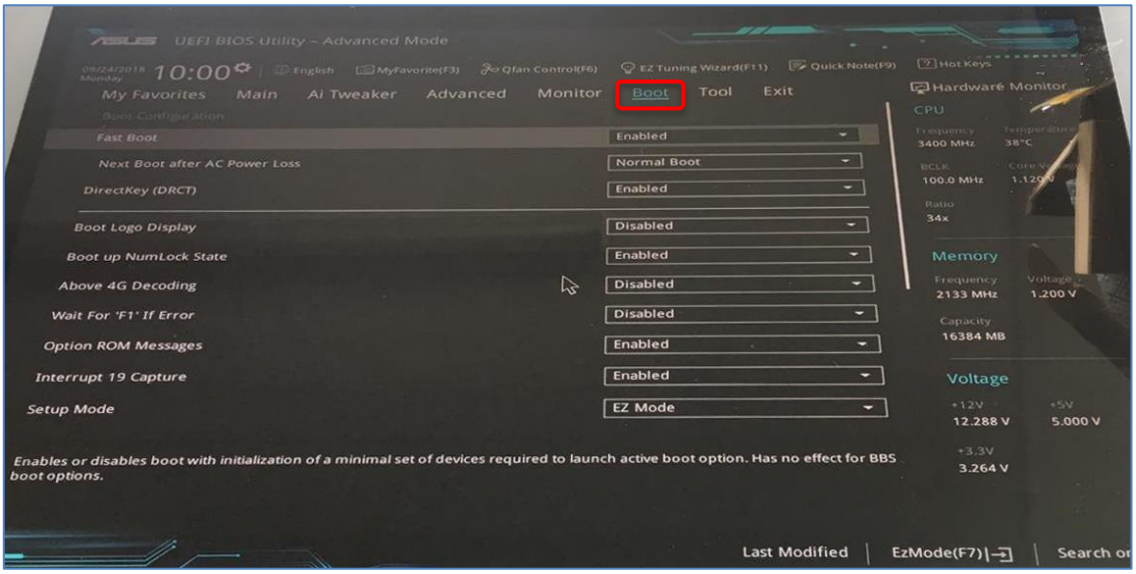
The console will now **boot into the BIOS**.

When in the BIOS press **F7** on the USB keyboard to enter the **Advanced Mode BIOS** to update the settings. Alternatively, on the touch screen press **Advanced Mode**.

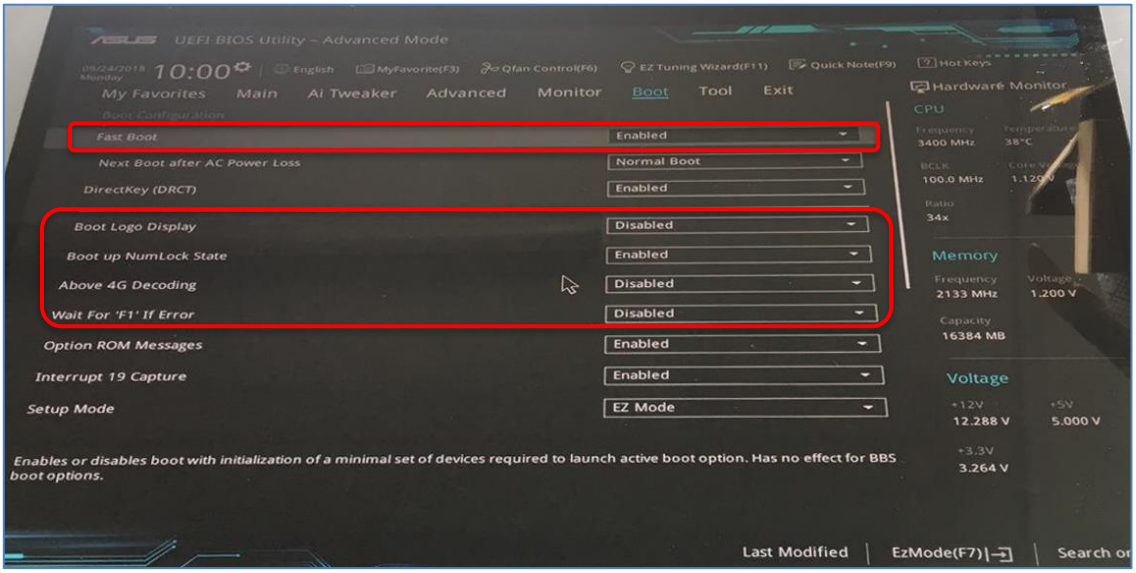


BIOS Boot Settings

The **Boot** setting screen will look like below. Select **Boot** from the top menu tab bar:



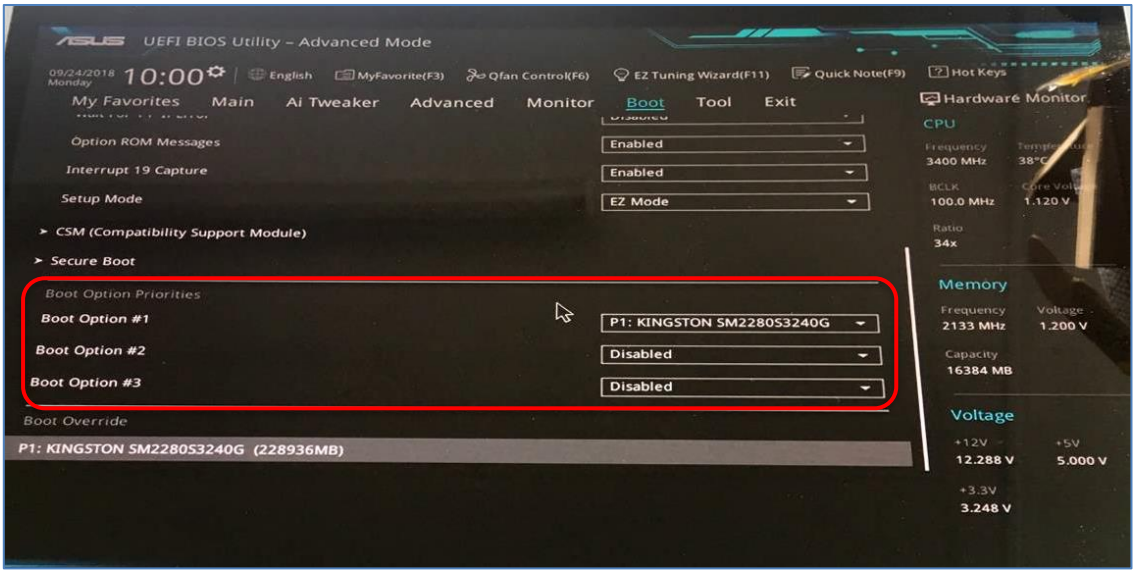
Select the following settings:



Set the following:

- **Fast Boot** - *Enabled*
- **Boot Logo Display** - *Disabled*
- **Boot up Numlock State** - *Enabled*
- **Above 4G Encoding** - *Disabled*
- **Wait for F1 If Error** - *Disabled*

Scroll down for further Boot option settings:



Set the following:

- **Boot Option #1** - *must set as the main hard drive*
- **Boot Option #2** - *Disabled*
- **Boot Option #3** - *Disabled*

If you **can't find a hard drive** in the Boot Options, the console is fitted with a **M2 hard drive**. Go to **Advanced** settings then use the information in the next section for a console fitted with an M2: ***BIOS Advanced setting: M2 Hard Drive ONLY consoles*****.**

Once you have completed that section Press **F10** on the keyboard to save the BIOS. This will save the settings and restart the console.

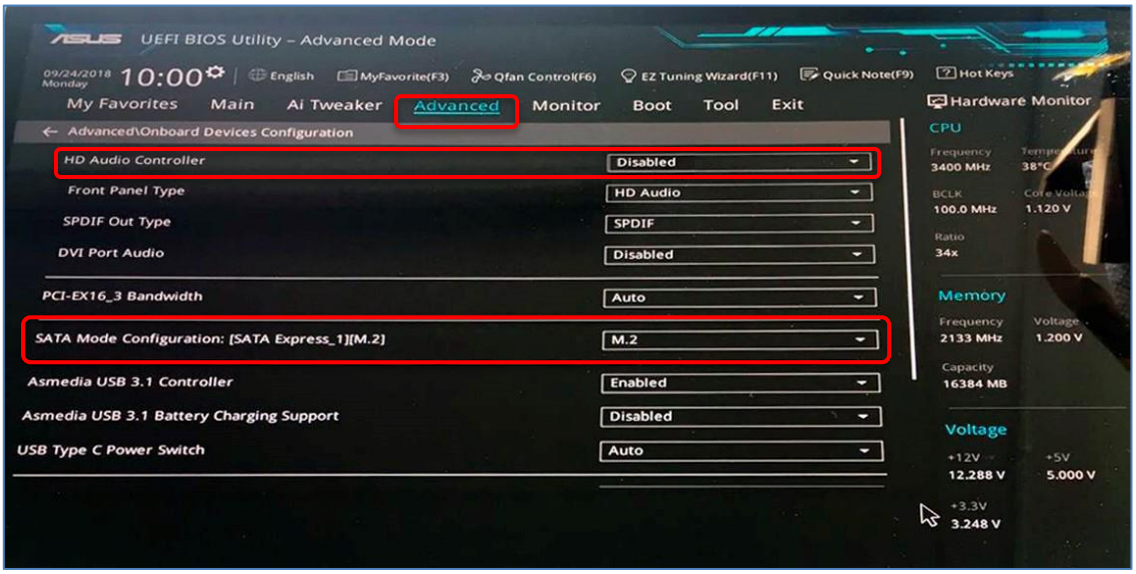
Then re-enter the **BIOS** and select **BOOT** and you can now complete the above Boot Option settings.

Proceed on to page 12.

BIOS Advanced setting: M2 Hard Drive ONLY consoles

If there is an **M2 drive** fitted in the console - older consoles will have a SATA drive - this must be **set in the BIOS**.

Select **Advanced** from the top menu bar
Select **Advanced\Onboard Devices Configuration**



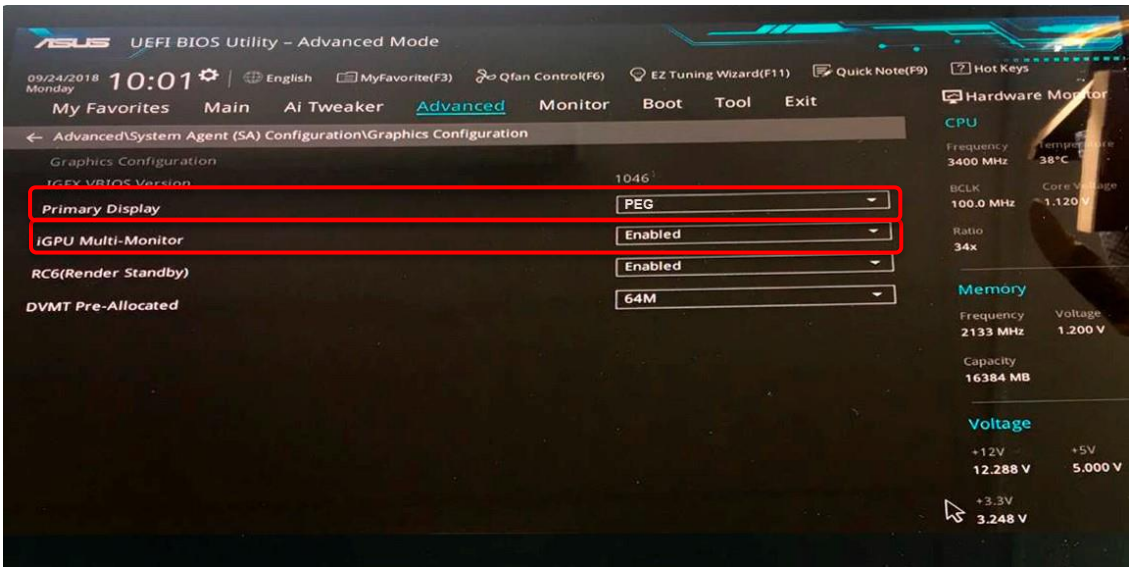
Set the following:

- **HD Audio Controller** - *Disabled*
- **SATA Mode Configuration -** *M.2*

BIOS Advanced setting: Screens

Important: On a **CDC seven / seven-s** the BIOS must be set to support **Multiple Monitors**.

Select: **Advanced\System Agent (SA) Configuration\Graphics Configuration**

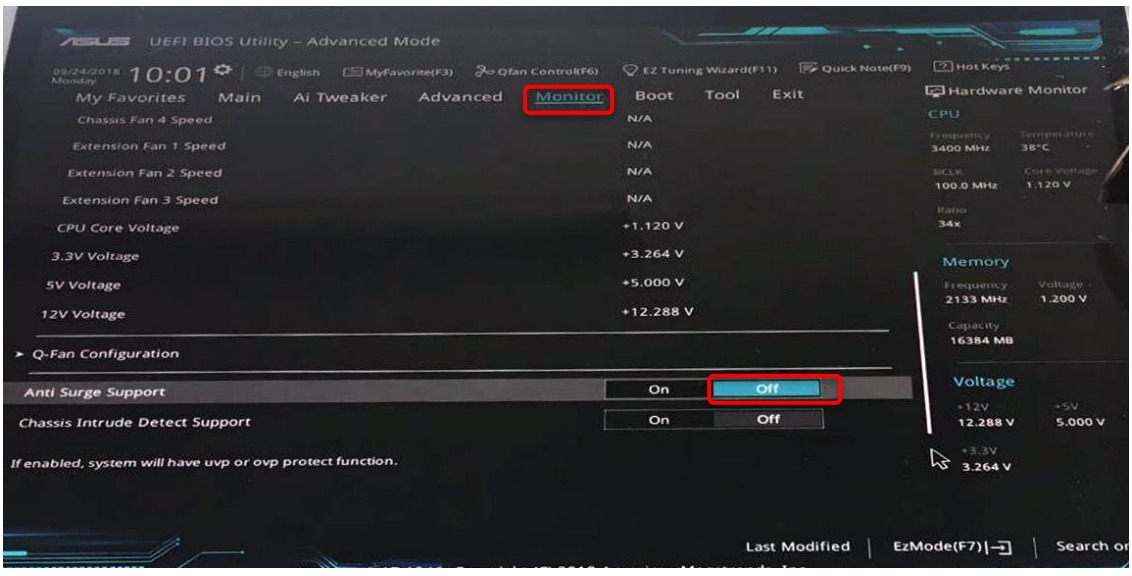


Ensure the following is enable:

- **Primary Display:** *PEG (NOTE: for a CDC six and CDC five this should be set to AUTO)*
- **iGPU Multi-Monitor**- *Enabled*

For all consoles select **Monitor** from the top menu bar.

Scroll down to **Anti Surge Support** and select **OFF**



Press **F10** on the USB keyboard to save the BIOS. This will save the settings and restart the PC.

After the BIOS settings are complete and the computer has successfully restarted, press **Ctrl - Alt-Delete** on the keyboard and in the bottom right corner of the screen there is a **Power OFF** button, press this to power OFF the PC. Once the PC is powered **OFF** switch the **console OFF at the mains**.

Reattach the ribbon cable to the motherboard.

You can now put the screen back down and fix it in place with the TORX screws.

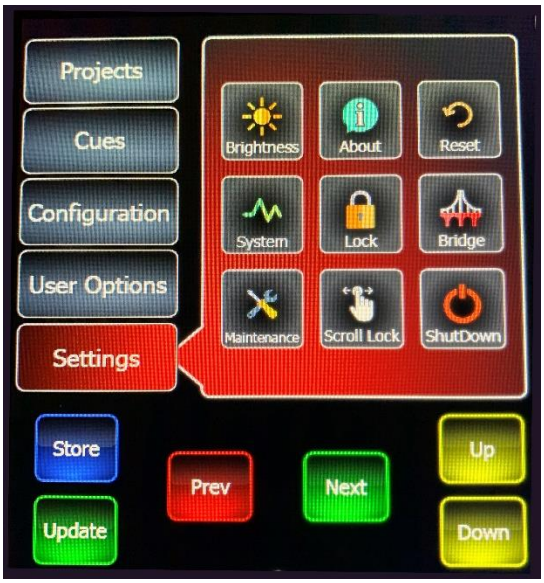
The console can now be restarted normally.

The clock on the console now needs to be set. See next section.

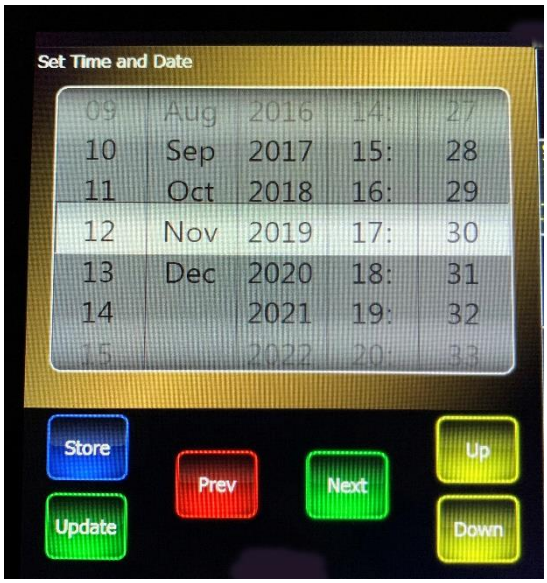
Setting the Clock

Once the console has rebooted you will need to re-set the clock.

This is done by going into the **MENU** and select **SETTINGS** then **ABOUT**.



Once in **ABOUT** click on the time and re-set the clock to the current date and time.



To exit press the **BACK** button.

BIOS battery change in now complete.