

3190 with eMMC 64GB M.2 Card - Drive Upgrade

NOTE: This 3190, like many, has a M.2 Connector with a “B Key” and not an “M Key”

Manual says 256GB is maximum size.

Bought the following

ELUTENG M.2 to USB Adapter Dual Protocol M.2 NVME SATA Hard Drive USB3.1 Gen2 10Gbps
USB to NVME PCI-E SSD Reader M Key & B+M Key Max 4TB Support UASP for 2280 2260 2242
2230 SSD

<https://a.co/d/4RaMR2S>

ORICO M.2 2280 SATA SSD, 256GB Internal M.2 SSD with B+M Key for Desktop/Laptop, SATA
III 6Gbps NGFF Solid State Drive Low Power Consumption (PCIe NVMe Incompatible) - Y20M

<https://a.co/d/6PtDtkZ>

EaseUS Disk Copy Pro

<https://www.easeus.com/disk-copy/clone-resource/clone-hard-drive.html>

Dell Recovery Tool – Free Download

<https://www.dell.com/support/contents/en-us/article/product-support/self-support-knowledgebase/software-and-downloads/dell-os-recovery-tool>

PROCEDURE

1. Installed the Dell Recovery Tool and created a recovery image on a USB Flash Drive just in case it was needed.
2. Installed the EaseUS Disk Copy
3. Mounted the New M.2 SSD in the M.2 to USB Adapter and plugged it in.
 - a. **NOTE:** Drive will not show up as it needs to be initialized.
 - b. Type Computer Management in the Search Box.
 - i. Select Computer Management
 - ii. Select Disk Management under Storage
 - iii. Drive will show it needs to be initialized
 - iv. Initialize Drive. I left the default setting of GPT
 - v. Then Right Click on the newly initialized drive on the bottom of the screen, and select New Simple Volume to Format Drive.
 - vi. You are done. Drive will now show up under This PC.

1. Oh, I gave it Drive letter E: during the above process. Does not matter what letter you use. I also left it as NTFS Format.
4. Ran EaseUS Disk Copy
 - a. Disk 0, OS (C:), the existing eMMC SSD Drive showed on the top with the current partitions. The target disk, the one in the adapter, showed on the bottom with what those partitions will be. It was Disk 1, OS (A:). All partitions are the same except the main one that now shows all the extra space.
 - b. Clicked Proceed and let it do its thing.
 - c. **Note the warning at the end about not booting from that newly cloned drive while plugged in the USB Port.**
 - d. Exit the program.
5. Tried to eject this new disk using the normal procedure (Safely Remove Hardware and Eject Media) but would not let me. Said it was in use by another program. I suspect that might be due to that it shows as a USB Adapter is Connected and not a drive?
 - a. Did not want to take any chances so shut down the computer before removing.
6. Rebooted computer, with that adapter and drive removed just to check everything was OK? It was, so shut it down again.
7. Unplugged the Power Adapter from computer, removed the screws on bottom and removed the bottom.
 - a. Unplugged the Battery and pressed the Power key to make sure all power was discharged.
 - b. Removed the current M.2 eMMC Drive and installed the new cloned drive.
 - c. Plugged the Battery back in.
 - d. Snapped on the bottom cover but did not screw down yet.
 - e. Plugged the power supply back in.
8. Kept my fingers crossed and pressed the power button. A SupportAssist Screen popped up that said "SupportAssist is running a system scan to detect any potential hardware problems".
 - a. At first I thought oh no, something did not work? I let SupportAssist do its thing and scan hardware, test memory, etc. At the end it said all was OK.
 - b. Exited out of that SupprtAssist Screen.
 - c. On the reboot, computer booted from the newly installed drive.

ERRORS

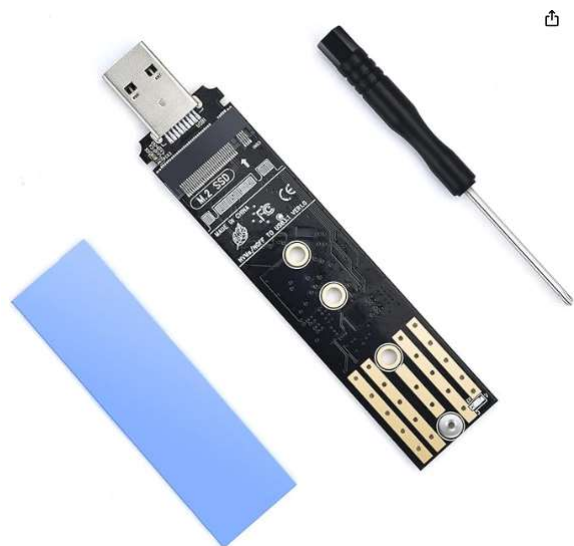
1. I did receive 3 errors all relating to an old version of NET Framework v4.030319. They were Parser Errors for three programs so probably specific to this computer? They were:
 - a. EOS Utility.exe (my remote control Canon camera software).
 - b. IGCCTray.exe (the Intel Graphics Control Console)
 - c. GfxCentennial.exe (The old Intel Graphic Control Panel)
 - i. NOTE: Neither of the Intel programs are actually needed but wanted to see if it could be fixed?

- ii. They were all Parser errors on the same file **in two different NET Framework Folders.**
 - 1. C:Windows\Microsoft.NET\Framework64\v4.0.30319\config\machine.config (The two Intel ones)
 - 2. C:Windows\Microsoft.NET\Framework\v4.0.30319\config\machine.config (The Canon EOS one)
- iii. I first tried the “Repair” and the “Reset” using the button under each program in Apps and Features, when you click on “Advanced Options” under each program. That did not work.
- iv. I then uninstalled each and tried to install again. Got the same error when you tried to run them.
- d. I then found a few articles about this parser error with NET Framework v4.0.30319. They suggested the following.
 - i. Go into each folder listed above under ii 1 & 2, and copy the “machine.config.default” file to your desktop.
 - ii. Then rename the machine.config file in that folder to something like machine1.config.
 - iii. Go back to the one on the desktop and rename that machine.config and paste that back into the folder.
 - iv. That worked. All programs reinstalled OK and now run fine.
- 2. Last I checked Device Manager to see if anything had a Red X or the Yellow Exclamation mark?
 - a. All were good. No errors shown.
- 3. All devices and programs are running OK as of day three.

If I find something down the road I will update.

Pictures of different parts, programs, screens below.

ELUTENG M.2 to USB Adapter



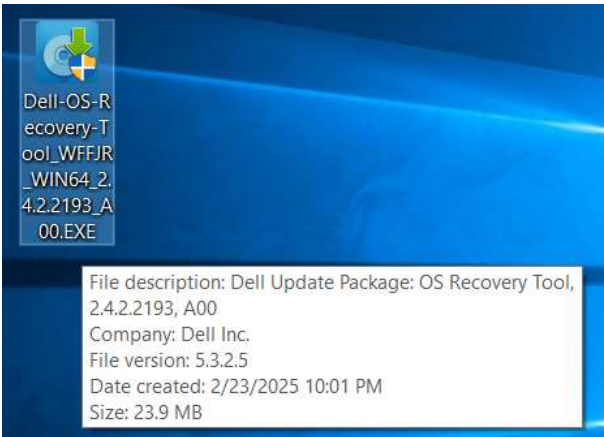
ORICO M.2 2280 SATA SSD – B & M Keys



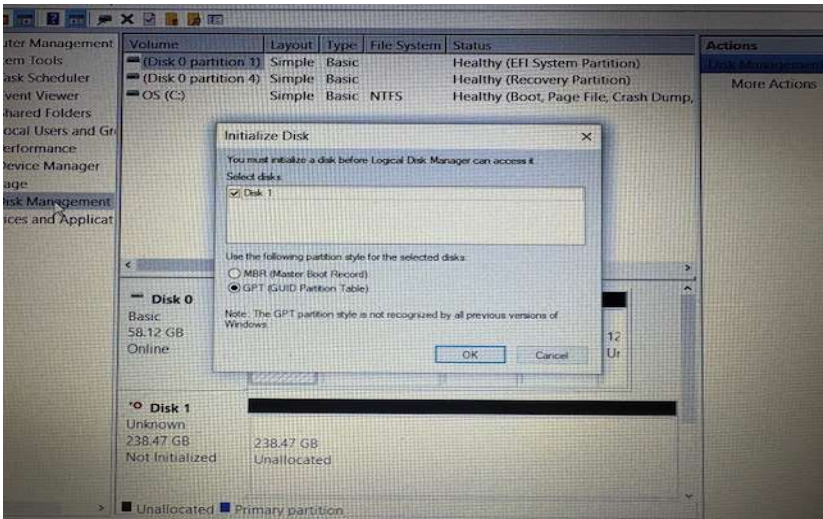
Ease US Disk Copy Install File



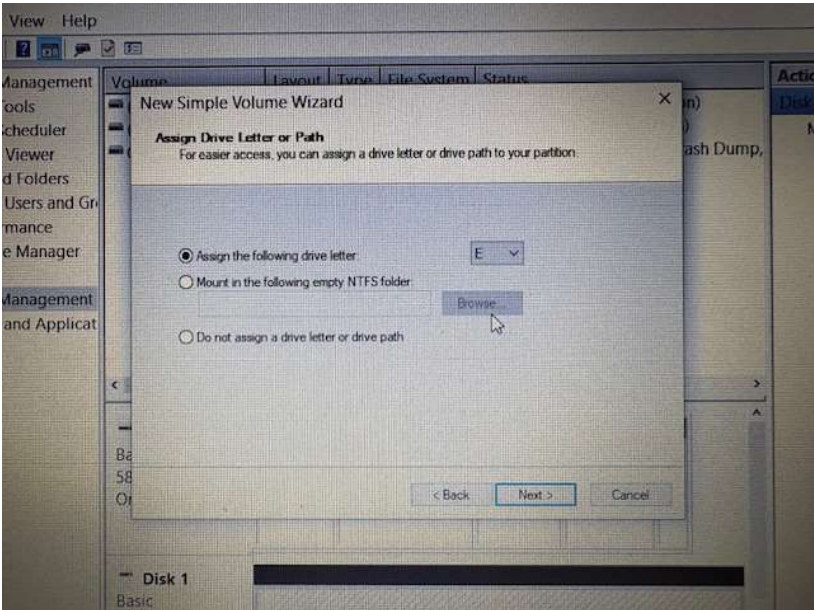
Dell OS Recovery Tool Install File



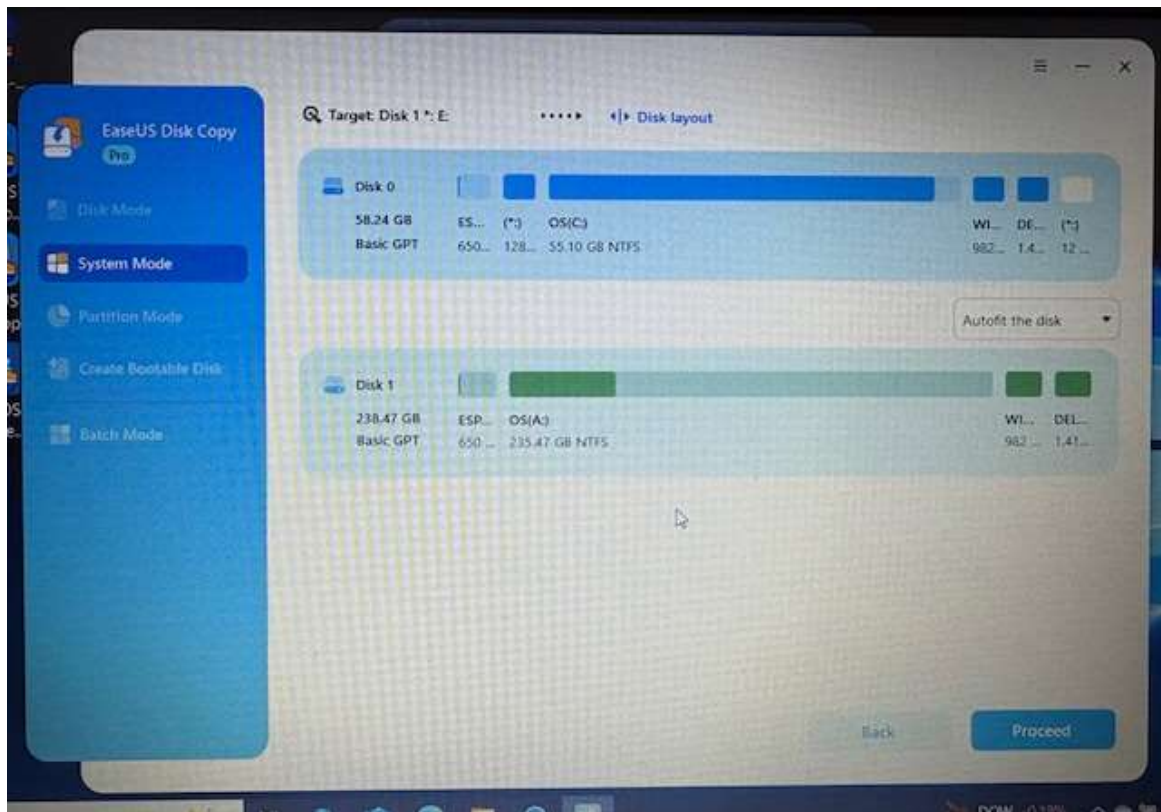
Initialize Disk



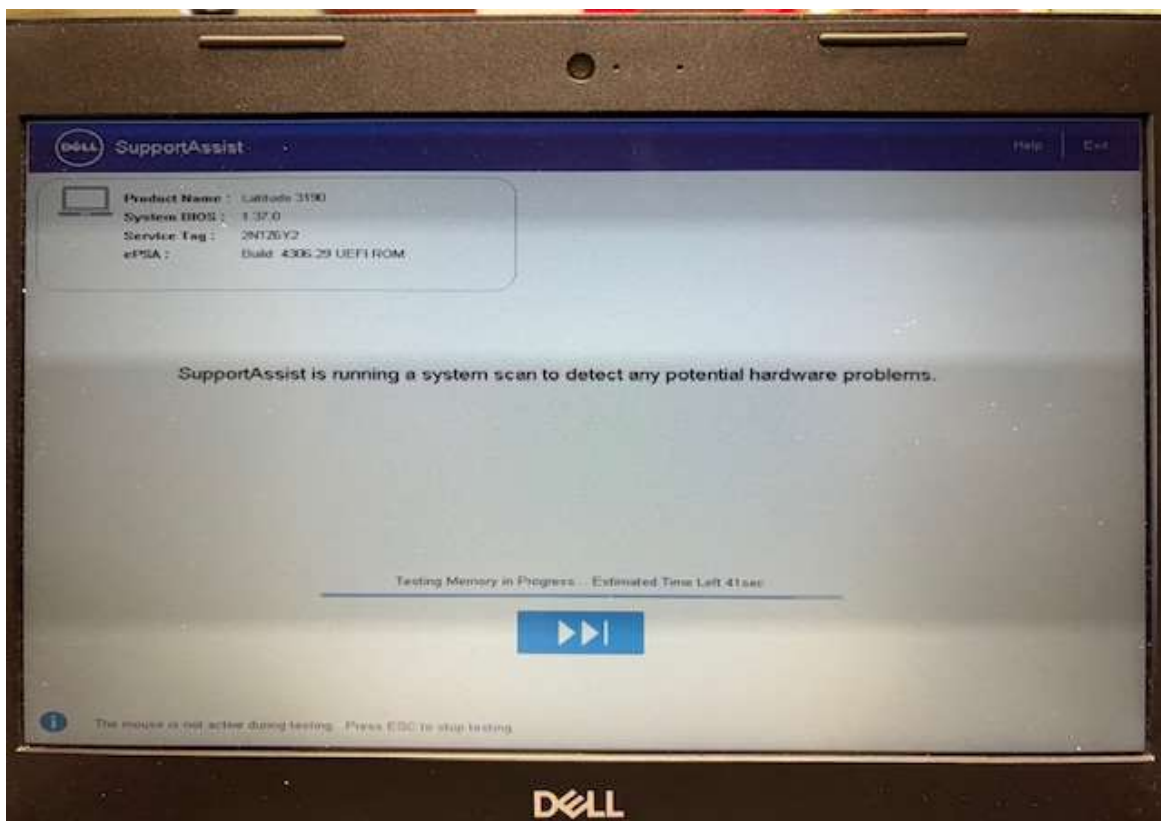
Format Disk



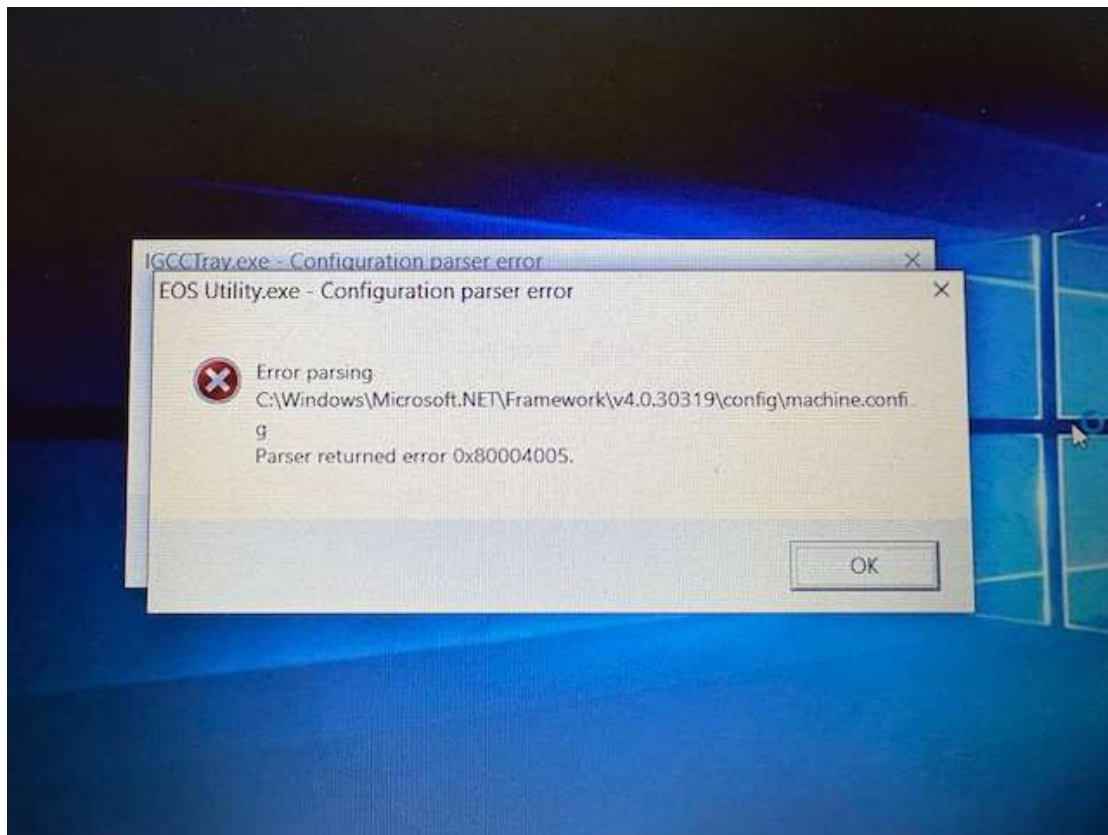
EaseUS showing old partitions and how it will create the new partitions



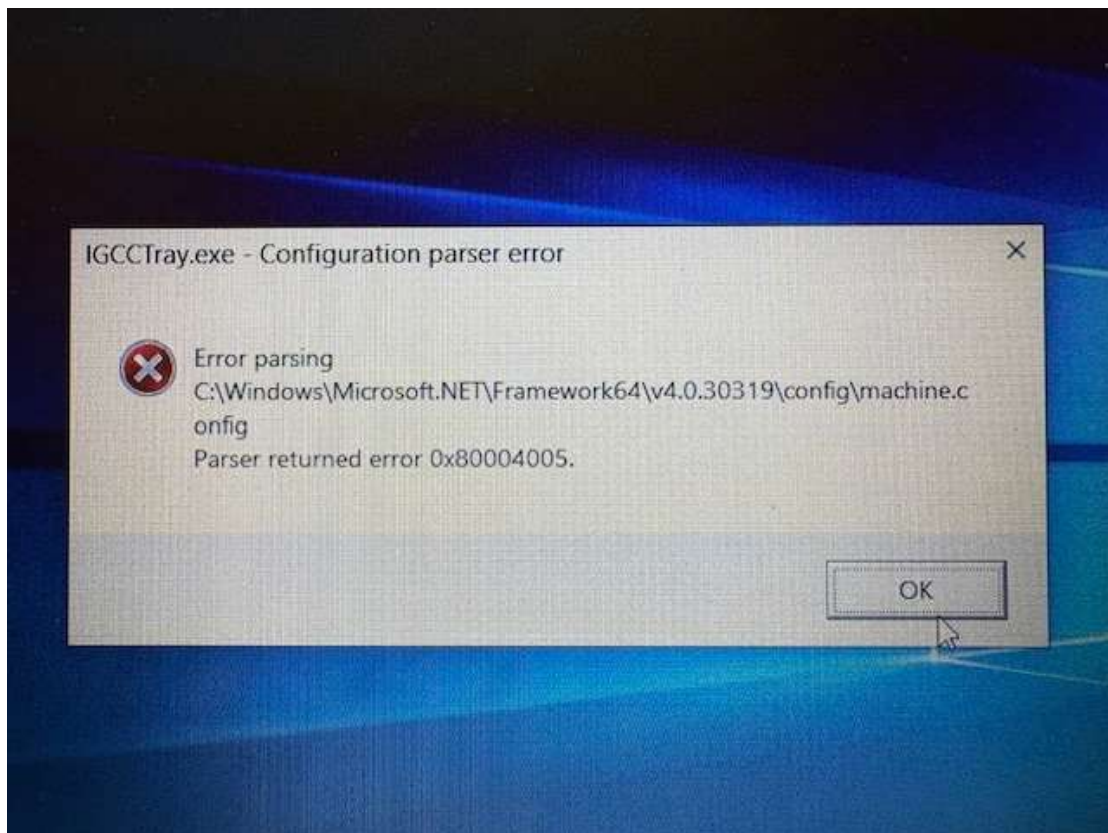
SupportAssist running hardware, memory, etc. checks on first boot up



NET Framework v4.0.30319 Error – EOS Utility



NET Framework v4.03.0319 Error – IGCCTray



NET Framework v4.0.30319 Error – gfxlauncher/gfxCentennial

