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Asus z97 pro nvme support

Hello. I bought today a new ssd a m.2 one since i always used the 2.5" ones and it was cheap because of black friday... But I'm having a problem with it. I was formatting my PC and noticed on windows install that there was no m.2 ssd, then I went to the bios and on the "onboard devices configuration" activated the "m.2 mode" on "m.2 PCIe". Then I went to try and install again on my windows 10 boot pen, and hurrray! It appears my m.2 ssd there so I went and installed windows... But now I'm having a problem because my boot menu on bios does not detect the m.2 disk... On windows installation it detects and installe and it's everything OK, but on bios it just detects my hdd and not the m.2 what should I do ? My specs: Mobo: Asus z97 pro-gamer CPU: i7 4790k SSD: Samsung 970 EVO nvme m.2 500gb EDIT: It seems I needed to update my BIOS so it could detect my 970 EVO ssd, and needed to reinstall windows again, 0 did you have windows 10 installed on another drive, either a Sata SSD or regular HDD? if so, if you can boot up on the sata drive, with the NVMe installed download and install the NVMe driver then shut down and i'd reboot one time again on the sata drive, let windows load then reboot, and this time go into BIOS and select the 970 as boot drive when you installed windows, did you have all the other drives disconnected? you should have - if not, i'd wipe that 970 drive, leave it unallocated and re-install windows (ie do not format or partition it - windows will do that) - that was the mistake i kept making, thinking the NVMe drive had to be formatted with empty partitions 0 Thanks for the awnsers but I fixed it, it seems I needed to update my BIOS to a more recent version since it did not have the nvme drivers, by updating it already recognizes my disk, but thanks The Original Ralph for the awnsers the samsung NVME driver is the better driver, specific to your SSD 0 You do realize that the 970 EVO NVMe will only run at about 1/3 its full performance, right? "Z97-PRO GAMER includes an M.2 socket with two native PCI Express 2.0 lanes for data-transfer speeds of up to 10 Gbit/s." A current x4 m.2 port would allow "up to 32GB/s" with that drive. 0 Hello. I bought today a new ssd a m.2 one since i always used the 2.5" ones and it was cheap because of black friday... But I'm having a problem with it. I was formatting my PC and noticed on windows install that there was no m.2 ssd, then I went to the bios and on the "onboard devices configuration" activated the "m.2 mode" on "m.2 PCIe". Then I went to try and install again on my windows 10 boot pen, and hurrray! It appears my m.2 ssd there so I went and installed windows... But now I'm having a problem because my boot menu on bios does not detect the m.2 disk... On windows installation it detects and installs and it's everything OK, but on bios it just detects my hdd and not the m.2 what should I do ? My specs: Mobo: Asus z97 pro-gamer CPU: i7 4790k SSD: Samsung 970 EVO nvme m.2 500gb EDIT: It seems I needed to update my BIOS so it could detect my 970 EVO ssd, and needed to reinstall windows again. I got the exact same problem. I did a Bios update, checked the drivers for my m.2 and reinstalled windows, but it still doesn't work. Does anybody have an idea what could be the problem? 240-pin DDR3 DIMM Banking: 4 (2 banks of 2) Max Unbuffered DDR3 SDRAM: 32GB My friend told me his ASUS Z97-DELUXE couldn't show some nvme ssds in bios.(such as TOSHIBA THNSN5512GVU7)I found there were 3 nvme module files in the bios.(Nvme,NvmeSmm,NVMEINT13),so I want to put the NvmExpressDxe 4.ffs into the bios.What if I put put the NvmExpressDxe 4.ffs into the bios?or should I delete the 3 nvme module files in the bios first????Thanks!!!! reply go to top Even with NvmExpressDxe 4 he wont see NVME in BIOS, but Fernando is best to answer this one when he has time to read it (He's on vacation right now) Edit by Fernando: Lost_N_BIOS hasn't been online since January 2021. reply go to top @gloobox:The BIOS of your friend's PC natively supports all NVMe SSDs. So it doesn't make any sense to add an additional NVMe module or to delete the already present ones.The fact, that the SSD is not shown as bootable device, does not mean, that it cannot be used as bootable disk drive. Solution: Install Win10 in UEFI mode onto it. My current System:MB: ASRock X570 Pro4, CPU: AMD Ryzen 5 5600X, System Drive: 1 TB Samsung 980 Pro, Graphics: Sapphire Radeon RX570, OS: Win11 x64 Pro Donation Link:If you are satisfied with my Forum activities, you can send me a donation by clicking onto >this< or >this< link. reply go to top @FernandoThanks ! ! He put the LENOVO SL700 128G nvme ssd in his machine and successfully show it in the boot list(without system)! try to let him setup the win10 and give you feedback. reply go to top @FernandoI add the new NVMe module(NvmExpressDxe 4) in it ,and found the NVMe SSD in the bios!!!!!!!!! reply go to top @gloobox:Did you or your friend remove the 3 NVMe modules, which had been inserted by the mainboard manufacturer and obviously didn't work?Is the NVMe SSD now bootable? My current System:MB: ASRock X570 Pro4, CPU: AMD Ryzen 5 5600X, System Drive: 1 TB Samsung 980 Pro, Graphics: Sapphire Radeon RX570, OS: Win11 x64 Pro Donation Link:If you are satisfied with my Forum activities, you can send me a donation by clicking onto >this< or >this< link. reply go to top @Fernando3 nvme module and the NvmExpressDxe 4 are all in the bios.The nvme ssd is bootable smoothly!!!! reply go to top @gloobox:This indicates, that the natively present BIOS module doesn't work. Otherwise the 2 NVMe BIOS modules may have interfered each other. My current System:MB: ASRock X570 Pro4, CPU: AMD Ryzen 5 5600X, System Drive: 1 TB Samsung 980 Pro, Graphics: Sapphire Radeon RX570, OS: Win11 x64 Pro Donation Link:If you are satisfied with my Forum activities, you can send me a donation by clicking onto >this< or >this< link. reply go to top @FernandoSomehow the LENOVO SL700 128G nvme ssd could work normally in the original bios.And the TOSHIBA THNSN5512GVU7 nvme ssd could work after I added the NvmExpressDxe 4 module.So I think the NvmExpressDxe 4 module works, and the 3 nvme modules are shielded.The same point as you!!!! reply go to top Zitat von Fernando im Beitrag #3@gloobox:The BIOS of your friend's PC natively supports all NVMe SSDs. So it doesn't make any sense to add an additional NVMe module or to delete the already present ones.The fact, that the SSD is not shown as bootable device, does not mean, that it cannot be used as bootable disk drive. Solution: Install Win10 in UEFI mode onto it.Fernando, give me a hand.I have one Gigabyte GA-Z97-D3H and all people says that this chipset don't support natively NVMe drives (in PCI-E expasion Card). The natively M2 slot on the board is a M2 SSD. I think about installing one PCI-E adapter like this: PCI-E NVME 4x Adapter Card.People say that will only work as an additional drive in Windows, but can't boot it. Others say that only through a modified BIOS.What you say? It's possible add this spanston Card to put a NVMe drive and with boot? The following contents have been linked to this post. reply go to top @Jose Lopes Once you update the latest bios of the mobo,you could find the NVMe SSD in your bios. (Usually showed PATA)And you could install system in the SSD and boot it. reply go to top Agreed, that BIOS supports NVME by default, either by the M.2 slot or any PCIe card too, and yes you can boot to NVME either way (slot or card) Edit by Fernando: Lost_N_BIOS hasn't been online since January 2021. reply go to top Motherboard manufacturers are lining up to offer support for the NVM Express (NVMe) storage protocol, which will support the latest Intel 750 series PCIe-based SSDs, the first drives to use NVMe that will be available to consumers. NVMe improves the performance of PCIe-based SSDs over Advanced Host Controller Interface (AHCI), thus allowing consumers to maximize the performance of the newest SSD storage devices, improve power efficiency and eventually reduce running costs. ASUS has now joined Gigabyte and MSI in announcing support for NVMe for all its X99 and Z97 boards. Users need only perform a simple UEFI BIOS update to enjoy the higher data transfer speeds - up to 32Gbps - offered by the new storage protocol when paired with compatible devices. The update can be done easily via ASUS' USB BIOS Flashback utility, which downloads the latest BIOS update to a USB flash drive. Users then need only plug in the drive and hit the USB BIOS Flashback or Reset button to flash the BIOS - they don't even need to have a CPU or RAM modules installed. In addition to NVMe compatibility, the BIOS update will offer support for PCIe and M.2 (PCIe) interfaces. ASUS X99 motherboards will also be compatible with the latest 2.5-inch NVMe SFF-8639 SSDs via the ASUS Hyper Kit expansion card, which is available for purchase separately. The SFF-8639 interface is physically similar to that of SATA Express, but provides the 32Gbps bandwidth of a PCIe 3.0 x4 interface. Drives like the Intel 750 series PCIe SSDs need to be connected via NVMe for consumers to experience their true performance, which can be up to 5x faster than more conventional SATA 6Gbps interfaces. For a full list of supported boards, please refer here. BIOS updates for all X99 and Z97 boards are available now under the Support section on their respective product pages on the ASUS website, and we expect updates for H97 boards to follow soon. Source: ASUS

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