

Forum:[Hack Forums](#)

Thread: [M.2 SSD not detected in BIOS or Windows](#)

eco999 temp - December 1, 2018, 6:38 am

[PCPartPicker part list](#) / [Price breakdown by merchant](#)

CPU: [AMD - Ryzen 5 2600X 3.6 GHz 6-Core Processor](#) (£189.17 @ Aria PC)
Motherboard: [MSI - B450 TOMAHAWK ATX AM4 Motherboard](#) (£99.98 @ Novatech)
Memory: [Corsair - Vengeance LPX 32 GB \(2 x 16 GB\) DDR4-3200 Memory](#) (£254.72 @ Amazon UK)
Storage: [Samsung - 860 Evo 2 TB M.2-2280 Solid State Drive](#) (£384.48 @ Box Limited)
Video Card: [Sapphire - Radeon RX 480 4 GB NITRO+ 4G Video Card](#) (Purchased For £200.00)
Case: [Corsair - SPEC-OMEGA RGB ATX Mid Tower Case](#) (£127.85 @ Aria PC)
Power Supply: [Corsair - 650 W 80+ Gold Certified Fully-Modular ATX Power Supply](#) (£106.98 @ Amazon UK)
Monitor: [Hannspree - HE225DPB 21.5" 1920x1080 Monitor](#) (Purchased For £80.00)
Keyboard: [Corsair - K70 RGB MK.2 Wired Gaming Keyboard](#) (£160.00)
Mouse: [Logitech - MX MASTER 2S \(Black\) Wireless Laser Mouse](#) (£70.00)
Headphones: [Kingston - HyperX Cloud Revolver S 7.1 Channel Headset](#) (£96.38 @ Amazon UK)
Total: £1769.56
Prices include shipping, taxes, and discounts when available
Generated by PCPartPicker 2018-12-01 14:27 GMT+0000

Hello, yesterday I built my new PC. It was all fine until I went to install Windows. No drives appeared for Windows to install to. So, I went into BIOS and saw that it said the M.2 slot was empty. In the BIOS settings, I couldn't find anything related to M.2 SSDs, only for SATA slots. This is what I have done so far: I tried changing XMP profiles

Switching between AHCI/RAID mode

Switching between Windows 10HQL/CSM

Switching between EUFI and EUFI+Legacy boot

Updating BIOS

Reseating my M.2 SSD

Installed Windows on a 2.5" SSD, checked Device Manager and Disk Management. No signs of my M.2 SSD.

Not sure what to do next. I sent an e-mail to MSI and Samsung but I am willing to try anything in the meantime.

The Right Stuff - December 1, 2018, 8:06 am

1) Download latest Bios

<https://www.msi.com/Motherboard/support/B450-TOMAHAWK>

2) If that does not work try disconnecting every other SATA Drive until you install Windows

3) Make sure you're on AHCI not RAID

eco999_temp - December 1, 2018, 8:45 am

I tried this and unfortunately, it did not fix the issue.

rezzex - December 1, 2018, 8:46 am

Is your BIOS on PC start taking way longer than expected? (i mean before windows pops up)

eco999_temp - December 1, 2018, 9:53 am

(Dec 1, 2018 09:46 AM)rezzex Wrote: [\[CITE\]](#) Is your BIOS on PC start taking way longer than expected? (i mean before windows pops up)

No, it seems fine.

archangel.dmitry - December 1, 2018, 12:18 pm

Check out "PCIe SlotX lanes configuration" and see if there is anything that can be helpful and needs to be changed.

eco999_temp - December 1, 2018, 1:26 pm

(Dec 1, 2018 01:18 PM)archangel.dmitry Wrote: [\[CITE\]](#) Check out "PCIe SlotX lanes configuration" and see if there is anything that can be helpful and needs to be changed.

It gave me the option to change it from x16 to x4x4x4x4. So I did that and rebooted, unfortunately, no luck.

archangel.dmitry - December 1, 2018, 7:02 pm

Does it give you any other options?

eco999_temp - December 2, 2018, 4:31 am

(Dec 1, 2018 08:02 PM)archangel.dmitry Wrote: [\[CITE\]](#) Does it give you any other options?

No, it is just a toggle between those two settings.

<https://www.msi.com/Motherboard/B450-TOMAHAWK/Specification>

<https://www.samsung.com/uk/memory-storage/860-evo-sata-3-m-2-ssd/MZ-N6E2T0BW/>

According to the detailed specification, there shouldn't be any compatibility issues.

From the MSI page, "1 x M.2 slot: Supports PCIe 3.0 x4 (AMD® Ryzen 1st and 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics) or PCIe 3.0 x2 (AMD® Athlon™ with Radeon™ Vega Graphics) and SATA 6Gb/s 2242/ 2260 /2280/ 22110 storage devices"

From the Samsung page: "Form Factor: M.2 2280", "Interface: SATA 6 Gb/s Interface, compatible with SATA 3 Gb/s & SATA 1.5 Gb/s interface"

archangel.dmitry - December 2, 2018, 5:29 am

Check SATA options, I thought, you had a NVMe drive. Why did you get a SATA driver instead of NVMe?!

eco999_temp - December 2, 2018, 9:25 am

(Dec 2, 2018 06:29 AM)archangel.dmitry Wrote: [\[CITE\]](#) Check SATA options, I thought, you had a NVMe drive. Why did you get a SATA driver instead of NVMe?!

I got it for a lot cheaper than MSRP. The only SATA options are to change the mode from RAID to

AHCI and to enable/disable hotplug for each of the sata ports.

I got a reply from Samsung and MSI.

Samsung says the SSD could be DOA (dead on arrival)

MSI said to clear cmos, reseal the M.2 SSD and check if it can be seen in BIOS. Did so, nothing.

I'll try to take the SSD to a computer store to see if it works on their PCs.