

HighPoint SSD7749M Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint SSD7749M and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint SSD7749M x16 PCIe 4.0 configurations. Specific motherboards may have special requirements or restrictions. Please refer to the motherboard's PCIe Expansion slot settings.

Note: *Bifurcation is not required. HighPoint SSD series NVMe RAID AIC can be used with "Non-Bifurcation" motherboards.*

Motherboard Compatibility List

Notes:

The recommended PCIe slot we filled in are based on the description of the motherboard manual.

SSD7749M do not support Lenovo P620 and Pro WS WRX80E-SAGE SE WIFI.

| Manufacture | Product Name | Chipset | Recommended PCIe slot # | Data RAID support | Boot RAID support |
|-------------|--------------------------------------|---------------------------|---|-------------------|-------------------|
| Dell | Precision T7920 Tower | Intel C621 | PCIe3x16 75W (slot2) PCIe3x16 75W (slot4) | √ | √ |
| ASUS | PRIME X299-DELUXE | Intel X299 | PCIEX16_1, PCIEX16_3 | √ | √ |
| ASUS | ROG STRIX X299-E | Intel X299 | PCIEX16/X8_1, PCIEX16/X8_2 | √ | √ |
| ASUS | TUF X299 MARK 1 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| ASUS | PRIME X299-A | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| ASUS | TUF X299 MARK 2 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| ASUS | WS X299 SAGE | Intel X299 | PCIEX16_1, PCIEX16_3 PCIEX16_5, PCIEX16_7 | √ | √ |
| ASUS | PRIME Z390 SERIES | Intel Z390 | PCIEX16_1 | √ | √ |
| ASUS | ROG ZENITH EXTREME | AMD X399 | PCIEx16_1, PCIEX16_3 | √ | √ |
| ASUS | PRIME X399-A | AMD X399 | PCIEX16_1, PCIEX16_3 | √ | √ |
| ASUS | ROG STRIX X399-E GAMING | AMD X399 | PCIEx16_1, PCIEX16_3 | √ | √ |
| ASUS | PRIME X570-P | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | PRIME X570-PRO | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | Pro WS X570-ACE | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Crosshair VIII Formula | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Crosshair VIII Hero (WI-FI) | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Crosshair VIII Impact | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Strix X570-E Gaming | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Strix X570-F Gaming | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | ROG Strix X570-I Gaming | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | TUF GAMING X570-PLUS | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | TUF GAMING X570-PLUS (WI-FI) | AMD X570 | PCIEX16_1 | √ | √ |
| ASUS | Pro WS WRX80E-SAGE SE WIFI | AMD WRX80 | PCIE4.0/3.0 X16_1 PCIE4.0/3.0 X16_2 PCIE4.0/3.0 X16_3 PCIE4.0/3.0 X16_4 PCIE4.0/3.0 X16_5 PCIE4.0/3.0 X16_6 PCIE4.0/3.0 X16_7 | √ | √ |
| ASUS | ROG MAXIMUS Z690 HERO | Intel Z690 | PCIEX16(G5)_1 | √ | √ |
| GIGABYTE | X299 AORUS Gaming 9 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X299 AORUS Gaming 7 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X299 AORUS Gaming 3 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X299 UD4 | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | GA-X299 DESIGNARE EX | Intel X299 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | GA-Z390 AORUS XTREME | Intel Z390 | PCIEX16 | √ | √ |
| GIGABYTE | X399 AORUS PRO | AMD X399 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X399 AORUS XTREME | AMD X399 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X399 DESIGNARE EX | AMD X399 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X399 AORUS Gaming 7 | AMD X399 | PCIEX16_1, PCIEX16_2 | √ | √ |
| GIGABYTE | X570 AORUS MASTER | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 AORUS ELITE WIFI | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 AORUS XTREME | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 AORUS PRO WIFI | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 I AORUS PRO WIFI | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 GAMING X | AMD X570 | PCIEX16 | √ | √ |
| GIGABYTE | X570 UD | AMD X570 | PCIEX16 | √ | √ |
| ASRock | Fatal1ty X299 Gaming K6 | Intel X299 | PCIE1, PCIE3 | √ | √ |
| ASRock | Fatal1ty X299 Professional Gaming i9 | Intel X299 | PCIE1, PCIE3 | √ | √ |
| ASRock | X299 Killer SLI/ac | Intel X299 | PCIE1, PCIE3 | √ | √ |
| ASRock | X299 Taiichi | Intel X299 | PCIE1, PCIE3 | √ | √ |
| ASRock | X99 WS | Intel X99 | PCIE1, PCIE4 | √ | √ |
| ASRock | ROMED8-2T | AMD EPYC 7002/7003 Series | PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7 | √ | √ |
| MSI | X299 GAMING M7 ACK | Intel X299 | PCI_E1, PCI_E4 | √ | × |
| MSI | X299 GAMING PRO CARBON AC | Intel X299 | PCI_E1, PCI_E4 | √ | × |
| MSI | X299 GAMING PRO CARBON | Intel X299 | PCI_E1, PCI_E4 | √ | × |

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|------------|----------------------|------------------------------|--|---|---|
| MSI | X299 TOMAHAWK ARCTIC | Intel X299 | PCI_E1, PCI_E4 | ✓ | × |
| MSI | X299 TOMAHAWK AC | Intel X299 | PCI_E1, PCI_E4 | ✓ | × |
| MSI | X299 TOMAHAWK | Intel X299 | PCI_E1, PCI_E4 | ✓ | × |
| MSI | X299 SLI PLUS | Intel X299 | PCI_E1, PCI_E4 | ✓ | × |
| MSI | X299 RAIDER | Intel X299 | PCI_E1, PCI_E3 | ✓ | × |
| Supermicro | X11DPL-i | Intel C621 | CPU1 SLOT5 PCI-E 3.0X16 CPU2 SLOT3 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DPi-N | Intel C621 | CPU1 Slot2 PCI-E 3.0X16 CPU2 Slot4 PCI-E 3.0X16 CPU2 Slot5 PCI-E 3.0X16 CPU2 Slot6 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DPi-NT | Intel C622 | CPU1 Slot2 PCI-E 3.0X16 CPU2 Slot4 PCI-E 3.0X16 CPU2 Slot5 PCI-E 3.0X16 CPU2 Slot6 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DAi-N | Intel C621 | CPU1 SLOT1 PCI-E 3.0X16 CPU1 SLOT2 PCI-E 3.0X16 CPU2 SLOT3 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DPX-T | Intel C621 | JPCIE2(CPU1 SLOT2 PCI-E 3.0X16) JPCIE4(CPU1 SLOT4 PCI-E 3.0X16) JPCIE6(CPU2 SLOT6 PCI-E 3.0X16) JPCIE8(CPU2 SLOT8 PCI-E 3.0X16) | ✓ | ✓ |
| Supermicro | X11DPH-TQ | Intel C627 | CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DPH-I | Intel C621 | CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DPH-T | Intel C622 | CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11DAC | Intel C621 | CPU1 SLOT1 PCI-E 3.0X16 CPU2 SLOT3 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11SPi-TF | Intel C622 | CPU SLOT4 PCI-E 3.0X16 CPU SLOT6 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X11SPM-TPF | Intel C622 | CPU1 SLOT4 PCI-E 3.0X16 CPU1 SLOT6 PCI-E 3.0X16 | ✓ | ✓ |
| Supermicro | X12DPi-N6 | Intel C621A | CPU1 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU2 SLOT4 PCI-E 4.0 x16 CPU2 SLOT5 PCI-E 4.0 x16 | ✓ | ✓ |
| Supermicro | X12DPi-NT6 | Intel C621A | CPU1 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU2 SLOT4 PCI-E 4.0 x16 CPU2 SLOT5 PCI-E 4.0 x16 | ✓ | ✓ |
| Supermicro | X12DPL-i6 | Intel C621A | CPU2 SLOT1 PCI-E 4.0 x16 CPU1 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU1 SLOT4 PCI-E 4.0 x16 | ✓ | ✓ |
| Supermicro | X12DPL-NT6 | Intel C621A | CPU2 SLOT1 PCI-E 4.0 x16 CPU1 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU1 SLOT4 PCI-E 4.0 x16 | ✓ | ✓ |
| Supermicro | H11DSi-NT | AMD EPYC 7001/7002 Series | CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16 | ✓ | ✓ |
| Supermicro | H11DSi | AMD EPYC 7001/7002 Series | CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16 | ✓ | ✓ |
| Supermicro | H11SSL-NC | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16 | ✓ | ✓ |
| Supermicro | H11SSL-i | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16 | ✓ | ✓ |
| Supermicro | H11SSL-C | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16 | ✓ | ✓ |
| Supermicro | H12SSL-i | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16 CPU SLOT3 PCI-E 4.0 X16 | ✓ | ✓ |

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|------------|-----------|------------------------------|---|---|---|
| | | | CPU SLOT5 PCI-E 4.0 X16 CPU SLOT6 PCI-E 4.0 X16 CPU SLOT7 PCI-E 4.0 X16 | | |
| Supermicro | H12SSL-NT | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16 CPU SLOT3 PCI-E 4.0 X16 CPU SLOT5 PCI-E 4.0 X16 CPU SLOT6 PCI-E 4.0 X16 CPU SLOT7 PCI-E 4.0 X16 | ✓ | ✓ |
| Supermicro | H12SSL-C | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16 CPU SLOT3 PCI-E 4.0 X16 CPU SLOT5 PCI-E 4.0 X16 CPU SLOT6 PCI-E 4.0 X16 CPU SLOT7 PCI-E 4.0 X16 | ✓ | ✓ |
| Supermicro | H12SSL-CT | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16 CPU SLOT3 PCI-E 4.0 X16 CPU SLOT5 PCI-E 4.0 X16 CPU SLOT6 PCI-E 4.0 X16 CPU SLOT7 PCI-E 4.0 X16 | ✓ | ✓ |

SSD Compatibility List

| Manufacture | Model/Series | Form Factor | Capacity | Remark |
|-----------------------|-----------------|-------------|-------------------------------|--|
| PCIe Gen4 NVMe | | | | |
| Seagate | FireCuda520 SSD | M.2 2280 | 500GB, 1TB, 2TB | NVMe based on the Phison chip does not support the workstation motherboard and is recommended to be used on the server motherboard. |
| Seagate | FireCuda530 SSD | M.2 2280 | 500GB, 1TB, 2TB, 4TB | NVMe based on the Phison chip does not support the workstation motherboard and is recommended to be used on the server motherboard. |
| Sabrent | Rocket NVMe 4.0 | M.2 2280 | 500GB, 1TB, 2TB | NVMe based on the Phison chip does not support the workstation motherboard and is recommended to be used on the server motherboard. |
| Sabrent | Rocket 4.0 PLUS | M.2 2280 | 500GB, 1TB, 2TB, 4TB, 8TB | NVMe based on the Phison chip does not support the workstation motherboard and is recommended to be used on the server motherboard. |
| Samsung | 980 PRO | M.2 2280 | 250GB, 500GB, 1TB, 2TB | |
| Samsung | 990 PRO | M.2 2280 | 1TB, 2TB | |
| Samsung | PM9A3 | M.2 22110 | 960GB,1.92TB,3.84TB | |
| PCIe Gen3 NVMe | | | | |
| Samsung | 970 EVO Plus | M.2 2280 | 250GB, 500GB, 1TB, 2TB | |
| Samsung | 970 EVO | M.2 2280 | 250GB, 500GB, 1TB, 2TB | |
| Samsung | 970 PRO | M.2 2280 | 512GB, 1TB | |
| KIOXIA | XG5 Series | M.2 2280 | 256GB, 512GB, 1TB | |
| KIOXIA | XG6 Series | M.2 2280 | 256GB, 512GB, 1024GB | |
| Western Digital | WD Blue SN500 | M.2 2280 | 250GB, 500GB | |
| Western Digital | WD Black SN750 | M.2 2280 | 250GB, 500GB, 1TB,2TB | |
| Western Digital | WD Green SN350 | M.2 2280 | 240GB, 480GB, 960GB, 1TB, 2TB | |
| Western Digital | WD Red SN700 | M.2 2280 | 250GB, 500GB, 1TB, 2TB, 4TB | |
| Sabrent | Rocket Q | M.2 2280 | 500GB, 1TB, 2TB, 4TB, 8TB | |
| HP | EX950 | M.2 2280 | 512GB, 1TB, 2TB | |

If you have any questions about NVMe compatibility, please contact us at Sales@highpoint-tech.com