

HighPoint SSD7749M2 Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint SSD7749M2 and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint SSD7749M2 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 SSD7749M2 NVMe RAID AIC can be used with "Non-Bifurcation" motherboards.*

Motherboard Compatibility List

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

Note: SSD7749M2 does not support Lenovo ThinkStation P620.

Manufacture	Product Name	Chipset/CPU Mode	Recommended PCIe slot #	Data RAID support	Boot RAID support
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	ROG MAXIMUS Z690 HERO	Intel Z690	PCIEX16(G5)_1	✓	✓
ASUS	ProArt Z690-CREATOR WIFI	Intel Z690	PCIEX16_1(gen5)	✓	✓
ASUS	PRIME X670-P WIFI	AMD X670	PCIEX16_1(gen5)	✓	✓
ASUS	ASUS ProArt X670E-CREATOR WIFI	AMD X670	PXIEX16_1, PCIEX16_2, PCIEX16_3	✓	✓
ASUS	Pro WS TRX50-SAGE WIFI	AMD TRX50	PCIEX16(G5)_1 PCIEX16(G5)_2 PCIEX16(G4)_2	✓	✓
ASUS	Pro WS WRX90E-SAGE SE	AMD WRX90	PCIE X16(G5)_1 PCIE X16(G5)_2 PCIE X16(G5)_3 PCIE X16(G5)_4 PCIE X16(G5)_5 PCIE X16(G5)_6 PCIE X16(G5)_7	✓	✓
ASUS	KRPA-U16	AMD EPYC 7002/7003 Series	PCIEx24_6(gen4)	✓	✓
ASUS	ASUS RS720A-E11-RS12	AMD EPYC 7003 Series	PCIEX16(gen4)	✓	✓
ASUS	ASUS Pro WS W790E-SAGE SE	Intel W790	PCIE X16(G5)_1 PCIE X16(G5)_2 PCIE X16(G5)_3 PCIE X16(G5)_4 PCIE X16(G5)_5 PCIE X16(G5)_7	✓	✓
ASUS	MAXIMUS Z790 DARK HERO	Intel Z790	PCIEX16(G5)_1	✓	✓
ASUS	PRIME Z890-P WIFI	Intel Z890	PCIEX16(G5)	✓	✓
ASUS	Prime X870-P WiFi	AMD X870	PCIEX16(G5)	✓	✓
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	Z790 PG Lightning	Intel Z790	PCIE1	✓	✓
ASRock	ROMED8-2T	AMD EPYC 7002/7003 Series	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7	✓	✓
ASRock	WRX90 WS EVO	AMD WRX90	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE7	✓	✓
Dell	Precision 7920 Tower Workstation	Intel C621	PCIe3x16 75W (slot2) PCIe3x16 75W (slot4)	✓	✓
Dell	Precision 7960 Tower Workstation	Intel W790	SLOT1 PCIe5 x16 SLOT4 PCIe4 x16 SLOT5 PCIe5 x16 SLOT8 PCIe4 x16	✓	✓
GIGABYTE	Z790M AORUS ELITE AX	Intel Z790	PCIEX16	✓	✓
GIGABYTE	Z890M AORUS ELITE WIFI7	Intel Z890	PCIEX16	✓	✓
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	Z690 Aorus Master	Intel Z690	PCIEX16_1(gen5)	✓	✓
GIGABYTE	MZ32-AR0	AMD EPYC 7002/7003 Series	PCIEX16_3, PCIEX16_4 PCIEX16_6, PCIEX16_7	✓	✓
GIGABYTE	MZ72-HB0	AMD EPYC 7002/7003 Series	PCIEX16_3, PCIEX16_4 PCIEX16_6 (gen4)	✓	✓
HP	Z6 G5 A	AMD Pro 695	SLOT1 PCIe5X16	✓	✓

			SLOT2 PCIe5X16 SLOT4 PCIe5X16 SLOT5 PCIe5X16 SLOT6 PCIe4X16		
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	✓	×
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	✓	×
MSI	PRO Z690-A	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MEG Z690 ACE	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MPG Z690 EDGE TI	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MPG Z690 CARBON WIFI	Intel Z690	PCI_E1(gen5)	✓	✓
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	X12DAI-N6	Intel C621A	CPU1 SLOT1 PCI-E 4.0 x16 CPU2 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU2 SLOT4 PCI-E 4.0 x16 CPU1 SLOT5 PCI-E 4.0 x16	✓	✓
Supermicro	X12-SPL-F	Intel C621A	CPU1 SLOT6 PCI-E 4.0 x16	✓	✓
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	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	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	X11DAC	Intel C621	CPU1 SLOT1 PCI-E 3.0X16 CPU2 SLOT3 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	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	X11DPH-TQ	Intel C627	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16	✓	✓
Supermicro	H12SSL-i	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	H12DSG-O	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot	✓	✓
Supermicro	H12DSi-NT6	AMD EPYC 7002/7003 Series	CPU SLOT2 PCI-E 4.0 x16 CPU SLOT4 PCI-E 4.0 x16 CPU SLOT6 PCI-E 4.0 x16	✓	✓
Supermicro	H12DSU-iN	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	H12SSW-NT	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
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	✓	✓
Supermicro	H13SSW	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	SYS-2025HS-TNR	AMD EPYC 9004 Series	SLOT1, SLOT3, SLOT5, SLOT7	✓	✓
Supermicro	H13DSH	AMD EPYC 9004 Series	JPCIE1 x16, JPCIE2 x16	✓	✓
Supermicro	AS-1024US-TRT	AMD EPYC 7002/7003 Series	2X PCIE4.0 X16 via Riser slot	✓	✓
Supermicro	SYS-741GE-TNRT	Intel C741	P1 SLOT2, P1 SLOT4, P2 SLOT5, P2 SLOT7, P2 SLOT9, P2 SLOT10 P2 SLOT11	✓	✓
Supermicro	X13SEI-TF	Intel C741	JPCIE4 CPU SLOT4 PCIe 5.0 X16 JPCIE6 CPU SLOT6 PCIe 5.0 X16	✓	✓
Apple	Mac Pro 2023	Apple M2 Ultra	SLOT2X16	✓	×
Apple	Mac Pro 2019	Apple T2	SLOT3X16, SLOT5X16	✓	×

NVMe SSD Compatibility List

Note: None of the M.2 disks on the compatibility list have heat sinks. Disks with heat sinks are not supported.

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Samsung	970 PRO	M.2 2280	512GB, 1TB	
Samsung	970 EVO Plus	M.2 2280	250GB, 500GB, 1TB, 2TB	
Western Digital	WD Red SN700	M.2 2280	250GB, 500GB, 1TB, 2TB, 4TB	
Western Digital	WD Green SN350	M.2 2280	240GB, 480GB, 960GB, 1TB, 2TB	
KIOXIA	XG6 Series	M.2 2280	256GB, 512GB, 1024GB	
PCIe Gen4				
Samsung	980PRO	M.2 2280	250GB, 500GB, 1TB, 2TB	
Samsung	990PRO	M.2 2280	1TB, 2TB, 4TB	
Samsung	990EVO	M.2 2280	1TB, 2TB	
Seagate	FireCuda 530	M.2 2280	500GB, 1TB, 2TB, 4TB	
Sabrent	Rocket NVMe 4.0	M.2 2280	500GB, 1TB, 2TB	
Sabrent	Rocket 4 Plus	M.2 2280	500GB, 1TB, 2TB, 4TB, 8TB	
KIOXIA	XG8 Series	M.2 2280	512GB, 1024GB, 2048GB, 4096GB	
Phison	PS5018-E18	M.2 2280 Double Side	2000GB,2048GB,4000GB,4096GB,8000GB,8192GB	
Phison	PS5027-E27T	M.2 2280	512GB, 500GB, 1024GB, 1000GB, 2048GB, 2000 GB	
Western Digital	WD_BLACK SN850X	M.2 2280	1TB, 2TB, 4TB,8TB	
PCIe Gen5				
Crucial	Crucial T700	M.2 2280	1TB, 2TB, 4TB	

Crucial	Crucial T705	M.2 2280	1TB, 2TB, 4TB	
PHISON	PS5026-E26 Gen5 Pro	M.2 2280	1000GB,2000GB, 4000GB	Don't support macOS.
PHISON	PS5031-E31T	M.2 2280	1TB-8TB	

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