

HighPoint SSD6540 Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint SSD6540 and specific motherboards/SSD's described herein.

The motherboards included in this document are recommended for HighPoint SSD6540 x16 PCIE 3.0 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 controllers 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.

Manufacture	Product Name	Chipset	Recommended PCIe slot #
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	X99-E-10G WS	Intel X99	PCIEX16_1, PCIEX16_3 PCIEX16_5, PCIEX16_7
ASUS	X99-WS/IPMI	Intel X99	PCIEX16_2, PCIEX16_3
ASUS	X99-E WS/USB 3.1	Intel X99	PCIEX16_1, PCIEX16_3 PCIEX16_5, PCIEX16_7
ASUS	Z10PE-D8 WS	Intel C612 PCH	PCIEX16_1, PCIEX16_3 PCIEX16_5, PCIEX16_7
ASUS	Z10PE-D16 WS	Intel C612 PCH	PCIEX16_2, PCIEX16_4 PCIEX16_5, PCIEX16_6
ASUS	Z10PA-U8	Intel C612 PCH	PCIE4, PCIE6
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	PRIME TRX40-PRO	AMD TRX40	PCIEX16_1, PCIEX16_2, PCIEX16_3
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 XIII HERO	Intel Z590	PCIEX16_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	GA-X99-UD7 WIFI	Intel X99	PCIE1, PCIE2
GIGABYTE	GA-X99P-SLI	Intel X99	PCIE_1, PCIE_2
GIGABYTE	GA-X99-UD4	Intel X99	PCIE_1, PCIE_2
GIGABYTE	MD70-HB0	Intel C612	PCIE_2, PCIE_4, PCIE_6
GIGABYTE	MD70-HB2	Intel C612	PCIE_2, PCIE_4, PCIE_6
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	PCI_E1, PCI_E3
ASRock	X99 WS	Intel X99	PCI_E1, PCI_E4
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	X99A WORKSTATION	Intel X99	PCI_E1, PCI_E4
MSI	X99A SLI	Intel X99	PCI_E1, PCI_E4
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 SLOTS5 PCI-E 3.0X16
Supermicro	X11DPX-T	Intel C621	JPCI2(CPU1 SLOT2 PCI-E 3.0X16) JPCI4(CPU1 SLOT4 PCI-E 3.0X16) JPCI6(CPU2 SLOT6 PCI-E 3.0X16) JPCI8(CPU2 SLOT8 PCI-E 3.0X16)
Supermicro	X11DPH-TQ	Intel C627	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOTS5 PCI-E 3.0X16
Supermicro	X11DPH-I	Intel C621	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOTS5 PCI-E 3.0X16
Supermicro	X11DPH-T	Intel C622	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOTS5 PCI-E 3.0X16
Supermicro	X11DAC	Intel C621	CPU1 SLOT1 PCI-E 3.0X16 CPU2 SLOT3 PCI-E 3.0X16 CPU2 SLOTS5 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	X11SRA-RF	Intel PCH C422	CPU SLOT4 PCI-E 3.0X16 CPU SLOT6 PCI-E 3.0X16
Supermicro	H11DSi-NT	System on Chip	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16
Supermicro	H11DSi	System on Chip	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16
Supermicro	H11SSL-NC	System on Chip	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16
Supermicro	H11SSL-i	System on Chip	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16
Supermicro	H11SSL-C	System on Chip	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16

SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	750	U.2	400G, 800GB, 1.2T	
Intel	Optane™ SSD 900P	U.2	280G	
Intel	Optane P4800X	U.2	375G, 750G, 1.5T	
Western Digital	*Ultrastar™ SN200	U.2	3.2T, 1.6T, 800G	
Samsung	983 DCT	U.2	960G,1.92T	

KIOXIA	CD5	U.2	7.68T ,3.84T,1.92T ,960 GB
KIOXIA	CM5-R	U.2	15.36T, 7.68T,3.84T,1.92T,960GB
Western Digital	Ultrastar DC SN630	U.2	960GB,1.92T,3.84T, 6.4T,
Western Digital	Ultrastar DC SN640	U.2	800GB,1600GB,3200GB,6400GB
Micron	9300 PRO	U.2	3.84T, 7.68T, 15.36T
Micron	9300 Max	U.2	3.2T, 6.4T, 12.8T
PCIe Gen4			
KIOXIA	CD6-R	U.2	960G, 1920G, 3840G, 7680G, 15360G
KIOXIA	CD6-V	U.2	800G, 1600G, 3200G, 6400G, 12800G
KIOXIA	CM6-R	U.2	960G, 1920G, 3840G, 7680G, 15360G, 30720G
KIOXIA	CM6-V	U.2	800G, 1600G, 3200G, 6400G, 12800G
KIOXIA	KCD7-R	U.2	960G, 1920G, 3840G, 7680G, 15360G
KIOXIA	KCD7-V	U.2	800G, 1600G, 3200G, 6400G, 12800G

External U.2 Enclosures

Manufacturer	Model	Description
HighPoint Technologies, Inc.	RS6540S	4-Bay NVMe U.2 JBOD enclosure designed for use with the SSD6540. Each bay supports a U.2 form factor NVMe SSD

Certified Cable Accessories

Manufacturer	Model	Description
HighPoint Technologies, Inc.	HighPoint 8644-8644	SFF-8644 to SFF-8644 cable, for use with the RS6540S

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