

HighPoint SSD7580B Compatibility List

2022/4/21

This document was designed to serve as general reference for compatibility between the HighPoint SSD7580B and specific motherboards/SSD's described herein.

The motherboards included in this document are recommended for HighPoint SSD7580B 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 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 #	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 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	PCIEX4.0/3.0 X16_1 PCIEX4.0/3.0 X16_2 PCIEX4.0/3.0 X16_3 PCIEX4.0/3.0 X16_4 PCIEX4.0/3.0 X16_5 PCIEX4.0/3.0 X16_6 PCIEX4.0/3.0 X16_7	✓	✓
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	PCIEX1, PCIEX3	✓	✓
ASRock	Fatal1ty X299 Professional Gaming i9	Intel X299	PCIEX1, PCIEX3	✓	✓
ASRock	X299 Killer SLI/ac	Intel X299	PCIEX1, PCIEX3	✓	✓
ASRock	X299 Taiichi	Intel X299	PCIEX1, PCIEX3	✓	✓
ASRock	X99 WS	Intel X99	PCIEX1, PCIEX4	✓	✓
ASRock	ROMED8-2T	System on Chip	PCIEX1, PCIEX2, PCIEX3, PCIEX4, PCIEX5, PCIEX6, PCIEX7	✓	✓
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	✓	×

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	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	✓	✓
Supermicro	H12SSL-i	System on Chip	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-NT	System on Chip	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	System on Chip	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	System on Chip	CPU SLOT1 PCI-E 4.0 X16 CPU SLOT3 PCI-E 4.0 X16 CPU SLOT5 PCI-E 4.0 X16	✓	✓

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U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	Optane P4800X	U.2	375G, 750G, 1.5T	
Samsung	983 DCT	U.2	960G,1.92T	
KIOXIA	CM5-R	U.2	960GB, 1.92T, 3.84T, 7.68T, 15.36T	
KIOXIA	XD5	U.2	960G, 1920G, 3840G	
KIOXIA	CD5	U.2	960G, 1920G, 3840G, 7680G	
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	
Western Digital	Ultrastar™ SN200	U.2	3.2T, 1.6T, 800G	
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	CM6-R	U.2	960G, 1920G, 3840G, 7680G, 15360G, 30720G	
KIOXIA	CM6-V	U.2	800G, 1600G, 3200G, 6400G, 12800G	
KIOXIA	CD6-R	U.2	960G, 1920G, 3840G, 7680G, 15360G	
KIOXIA	CD6-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	

Internal M.2 NVMe SSD Racks/Backplanes/Enclosures

Manufacturer	Model	Description	
ICY DOCK	ToughArmor MB873MP-B	8 x M.2 NVMe SSD Backplane Cage for 5.25" Bay	
ICY DOCK support SSD list			
Manufacture	Model/Series	Form Factor	Capacity
PCIe Gen3			
Samsung	970 EVO Plus	M.2 2280	250G, 500G, 1T, 2T
Samsung	970 EVO	M.2 2280	250G, 500G, 1T, 2T
Samsung	970 PRO	M.2 2280	512G, 1T
KIOXIA	XG6	M.2 2280	256GB, 512GB, 1024GB
KIOXIA	XG5	M.2 2280	256GB, 512GB
Western Digital	WD Black SN750	M.2 2280	250G, 500G, 1T, 2T
Western Digital	WD Blue SN500	M.2 2280	250GB,500GB
HP	EX950	M.2 2280	512GB,1TB,2TB
PCIe Gen4			
Seagate	FireCuda520 SSD	M.2 2280	500GB,1T,2T
Seagate	FireCuda530 SSD	M.2 2280	500GB,1T,2T,4T
Sabrent	Rocket NVMe 4.0	M.2 2280	500GB,1T,2T
Samsung	980 PRO	M.2 2280	250GB, 500GB, 1TB,2TB
Western Digital	WD_BLACK SN850	M.2 2280	500GB,1T,2T
Samsung	PM9A3	M.2 22110	960GB, 1.92TB, 3.84TB

Hot-plug U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	Optane P4800X	U.2	375G, 750G, 1.5T	
Samsung	983 DCT	U.2	960G,1.92T	
KIOXIA	CM5-R	U.2	960GB, 1.92T, 3.84T, 7.68T, 15.36T	
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 Max	U.2	3.2T, 6.4T, 12.8T	
PCIe Gen4				
KIOXIA	KCD7-R	U.2	960G, 1920G, 3840G, 7680G, 15360G	

Hot-plug M.2 NVMe SSD Compatibility List

Manufacturer	Model	Description	
ICY DOCK	ToughArmor MB873MP-B	8 x M.2 NVMe SSD PCIe4.0 Backplane Cage for 5.25" Bay	
ICY DOCK support SSD list			
Manufacture	Model/Series	Form Factor	Capacity
PCIe Gen3			
Samsung	970 EVO Plus	M.2 2280	250G, 500G, 1T, 2T

Samsung	970 EVO	M.2 2280	250G, 500G, 1T, 2T
Samsung	970 PRO	M.2 2280	512G, 1T
Western Digital	WD Black SN750	M.2 2280	250G, 500G, 1T, 2T
Western Digital	WD Blue SN500	M.2 2280	250GB,500GB
PCIe Gen4			
Seagate	FireCuda520 SSD	M.2 2280	500GB,1T,2T
Sabrent	Rocket NVMe 4.0	M.2 2280	500GB,1T,2T
Samsung	980 PRO	M.2 2280	250GB, 500GB, 1TB,2TB

Certified Cable Accessories

Manufacturer	Model	Description
HighPoint Technologies, Inc.	HighPoint 8654-8611	SFF-8654 NVMe Host to SFF-8611 NVMe HD-Mini-SAS Device (M.2) cables, for use with the M.2/U.2 ICY DOCK
HighPoint Technologies, Inc.	HighPoint 8654-8639	SFF-8654 to SFF-8639 NVMe device (U.2) cable, for use direct connection to SSD7580B

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