

HighPoint SSD7580C Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint SSD7580C and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint SSD7580C 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.
Note: SSD7580C does not support Lenovo ThinkStation P620.

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 MAXIMUS XIII HERO	Intel Z590	PCIEX16_1	√	√
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 TRX50-SAGE WIFI	AMD TRX50	PCIEX16(G5)_1 PCIEX16(G5)_2 PCIEX16(G4)_2	√	√
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	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	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)	√	√
ASUS	ProArt X670E-CREATOR WIFI	AMD X670	PXIEX16_1 PCIEX16_2 PCIEX16_3	√	√
ASRock	Z790 PG Lightning	Intel Z790	PCIE1	√	√
ASRock	WRX90 WS EVO	AMD WRX90	PCIE1 PCIE2 PCIE3 PCIE4 PCIE5 PCIE7	√	√
ASRock	ROMED8-2T	AMD EPYC 7002/7003 Series	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7	√	√
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	√	√

Dell	Precision 7960 Tower	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	GA-Z390 AORUS XTREME	Intel Z390	PCIEX16	✓	✓
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	✓	✓
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	✓	×
Supermicro	H11Dsi-NT	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCIe 3.0 x16 CPU1 SLOT4 PCIe 3.0 x16	✓	✓
Supermicro	H11Dsi	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCIe 3.0 x16 CPU1 SLOT4 PCIe 3.0 x16	✓	✓
Supermicro	H11SSL-NC	AMD EPYC 7001/7002 Series	CPU SLOT2 PCIe 3.0 x16 CPU SLOT4 PCIe 3.0 x16 CPU SLOT6 PCIe 3.0 x16	✓	✓
Supermicro	H11SSL-i	AMD EPYC 7001/7002 Series	CPU SLOT2 PCIe 3.0 x16 CPU SLOT4 PCIe 3.0 x16 CPU SLOT6 PCIe 3.0 x16	✓	✓
Supermicro	H11SSL-C	AMD EPYC 7001/7002 Series	CPU SLOT2 PCIe 3.0 x16 CPU SLOT4 PCIe 3.0 x16 CPU SLOT6 PCIe 3.0 x16	✓	✓
Supermicro	H12SSL-i	AMD EPYC 7002/7003 Series	CPU SLOT1 PCIe 4.0 x16 CPU SLOT3 PCIe 4.0 x16 CPU SLOT5 PCIe 4.0 x16 CPU SLOT6 PCIe 4.0 x16 CPU SLOT7 PCIe 4.0 x16	✓	✓
Supermicro	H12SSL-NT	AMD EPYC 7002/7003 Series	CPU SLOT1 PCIe 4.0 x16 CPU SLOT3 PCIe 4.0 x16 CPU SLOT5 PCIe 4.0 x16 CPU SLOT6 PCIe 4.0 x16 CPU SLOT7 PCIe 4.0 x16	✓	✓
Supermicro	H12SSL-C	AMD EPYC 7002/7003 Series	CPU SLOT1 PCIe 4.0 x16 CPU SLOT3 PCIe 4.0 x16 CPU SLOT5 PCIe 4.0 x16 CPU SLOT6 PCIe 4.0 x16 CPU SLOT7 PCIe 4.0 x16	✓	✓
Supermicro	H12SSL-CT	AMD EPYC 7002/7003 Series	CPU SLOT1 PCIe 4.0 x16 CPU SLOT3 PCIe 4.0 x16 CPU SLOT5 PCIe 4.0 x16 CPU SLOT6 PCIe 4.0 x16 CPU SLOT7 PCIe 4.0 x16	✓	✓
Supermicro	X12DPi-N6	Intel C621A	CPU1 SLOT2 PCIe 4.0 x16	✓	✓

			CPU1 SLOT3 PCIe 4.0 x16 CPU2 SLOT4 PCIe 4.0 x16 CPU2 SLOT5 PCIe 4.0 x16		
Supermicro	X12DPi-NT6	Intel C621A	CPU1 SLOT2 PCIe 4.0 x16 CPU1 SLOT3 PCIe 4.0 x16 CPU2 SLOT4 PCIe 4.0 x16 CPU2 SLOT5 PCIe 4.0 x16	✓	✓
Supermicro	X12DPL-i6	Intel C621A	CPU2 SLOT1 PCIe 4.0 x16 CPU1 SLOT2 PCIe 4.0 x16 CPU1 SLOT3 PCIe 4.0 x16 CPU1 SLOT4 PCIe 4.0 x16	✓	✓
Supermicro	X12DPL-NT6	Intel C621A	CPU2 SLOT1 PCIe 4.0 x16 CPU1 SLOT2 PCIe 4.0 x16 CPU1 SLOT3 PCIe 4.0 x16 CPU1 SLOT4 PCIe 4.0 x16	✓	✓
Supermicro	X12DAI-N6	Intel C621A	CPU1 SLOT1 PCIe 4.0 x16 CPU2 SLOT2 PCIe 4.0 x16 CPU1 SLOT3 PCIe 4.0 x16 CPU2 SLOT4 PCIe 4.0 x16 CPU1 SLOT5 PCIe 4.0 x16	✓	✓
Supermicro	X12-SPL-F	Intel C621A	CPU1 SLOT6 PCIe 4.0 x16	✓	✓
Supermicro	H13DSH	AMD EPYC 9004 Series	JPCIE1 x16 JPCIE2 x16	✓	✓
Supermicro	X13SEI-TF	Intel C741	JPCIE4 CPU SLOT4 PCIe 5.0 X16 JPCIE6 CPU SLOT6 PCIe 5.0 X16	✓	✓
Supermicro	SYS-2025HS-TNR	AMD EPYC 9004	Slot1 PCIe 5.0X16 Slot3 PCIe 5.0X16 Slot5 PCIe 5.0X16 Slot7 PCIe 5.0X16 Slot8 PCIe 5.0X16	✓	✓
Supermicro	SYS-741GE-TNRT	Intel C741	Slot2 PCIe 5.0X16 Slot4 PCIe 5.0X16 Slot5 PCIe 5.0X16 Slot7 PCIe 5.0X16 Slot9 PCIe 5.0X16 Slot10 PCIe 5.0X16 Slot11 PCIe 5.0X16	✓	✓
Supermicro	X14SBI-F	Intel® Xeon® 6511P	Slot1 PCIe 5.0X16 Slot3 PCIe 5.0X16 Slot6 PCIe 5.0X16	✓	✓

U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	Optane P4800X	U.2	375GB, 750GB, 1.5TB	
Samsung	983 DCT	U.2	960GB,1.92TB	
KIOXIA	CM5-R Series	U.2	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
KIOXIA	XD5 Series	U.2	960GB, 1920GB, 3840GB	
KIOXIA	CD5 Series	U.2	960GB, 1920GB, 3840GB, 7680GB	
Western Digital	Ultrastar DC SN630	U.2	960GB, 1.92TB, 3.84TB, 6.4TB	
Western Digital	Ultrastar DC SN640	U.2	800GB, 1600GB, 3200GB, 6400GB	
Western Digital	Ultrastar™ SN200	U.2	800GB, 1.6TB, 3.2TB	
Micron	9300 PRO	U.2	3.84TB, 7.68TB, 15.36TB	
Micron	9300 MAX	U.2	3.2TB, 6.4TB, 12.8TB	
PCIe Gen4				
Solidigm	D7-P5510	U.2	3.84TB, 7.68TB	
KIOXIA	CD7-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CM6-R Series	U.3	960GB, 1920GB, 3840GB, 7680GB, 15360GB, 30720GB	
KIOXIA	CM6-V Series	U.3	800GB, 1600GB, 3200GB, 6400GB, 12800GB	
KIOXIA	CD6-R Series	U.3	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD6-V Series	U.3	800GB, 1600GB, 3200GB, 6400GB, 12800GB	
Micron	7450 MAX	U.3	800G, 1.6T, 3.2T, 6.4T, 12.8T	
Micron	7450 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Micron	7400 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB	
Western Digital	Ultrastar DC SN650	U.3	7.68TB, 15.36TB	
PCIe Gen5				
KIOXIA	CD8P-R	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	

KIOXIA	CM7-V	U.3	12800GB, 6400GB, 3200GB, 1600GB	
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Hot-plug U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	Optane P4800X	U.2	375GB, 750GB, 1.5TB	
Samsung	983 DCT	U.2	960GB,1.92TB	
KIOXIA	CM5-R Series	U.2	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Western Digital	Ultrastar DC SN630	U.2	960GB, 1.92TB, 3.84TB, 6.4TB	
Western Digital	Ultrastar DC SN640	U.2	800GB, 1600GB, 3200GB, 6400GB	
Micron	9300 PRO	U.2	3.84TB, 7.68TB, 15.36TB	
PCIe Gen4				
Solidigm	D7-P5510	U.2	3.84TB, 7.68TB	
KIOXIA	CD7-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
Micron	7450 MAX	U.3	800G, 1.6T, 3.2T, 6.4T, 12.8T	
Micron	7450 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Micron	7400 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB	
Western Digital	Ultrastar DC SN650	U.3	7.68TB, 15.36TB	
PCIe Gen5				
KIOXIA	CD8P-R	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CM7-V	U.3	12800GB, 6400GB, 3200GB, 1600GB	

SED U.2 NVMe SSD Compatibility List

The SSD supports SED (Self-Encrypting Drive) function.

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
Intel	Optane P4800X	U.2	375GB, 750GB, 1.5TB	
Samsung	983 DCT	U.2	960GB,1.92TB	
PCIe Gen5				
KIOXIA	CD8P-R	U.2	30720GB	

Certified Cable Accessories

Manufacturer	Model	Description
HighPoint Technologies, Inc.	8654-8611-205	SFF-8654 NVMe Host to SFF-8611 NVMe HD-Mini-SAS Device cables, for use with the U.2 ICY DOCK
HighPoint Technologies, Inc.	TS8i-8639-060	SFF-8654 to SFF-8639 NVMe device (U.2) cable, for use direct connection to SSD7580C
HighPoint Technologies, Inc.	8654-8654-110	SFF-8654 NVMe Host to SFF-8643 NVMe HD-Mini-SAS Device cables, for use with the ICY DOCK
HighPoint Technologies, Inc.	8654-8643-210	SFF-8654 NVMe Host to SFF-8654 Motherboard backplane
HighPoint Technologies, Inc.	8654- CIO8-110	SFF-8654 NVMe Host to MCIO Motherboard backplane

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