

HighPoint R1580B Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint R1580B and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint R1580B 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 Rocket series NVMe HBAs 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	WS X299 SAGE	Intel X299	PCIEX16_1, PCIEX16_3, PCIEX16_5, PCIEX16_7
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	ROG MAXIMUS XIII HERO	Intel Z590	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
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
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	AMD EPYC 7002/7003 Series	PCIEX1, PCIEX2, PCIEX3, PCIEX4, PCIEX5, PCIEX6, PCIEX7
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
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	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	JPCIEX2(CPU1 SLOT2 PCI-E 3.0X16) JPCIEX4(CPU1 SLOT4 PCI-E 3.0X16) JPCIEX6(CPU2 SLOT6 PCI-E 3.0X16)

			JPCIE8(CPU2 SLOT8 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	X11DAC	Intel C621	CPU1 SLOT1 PCI-E 3.0X16 CPU2 SLOT3 PCI-E 3.0X16 CPU2 SLOT5 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	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	H11Dsi	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16
Supermicro	H11Dsi-NT	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16
Supermicro	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 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
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

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, 1920GB	
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, 6.4TB	
Micron	9300 PRO	U.2	3.84TB, 7.68TB, 15.36TB	
Micron	9300 MAX	U.2	3.2TB, 6.4TB, 12.8TB	
PCIe Gen4				
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	
KIOXIA	CD7-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
Solidigm	D7-P5510	U.2	3.84TB, 7.68TB	
Micron	7450 MAX	U.3	800GB, 1.6TB, 3.2TB, 6.4TB, 12.8TB	
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	

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, 1920GB	
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				
KIOXIA	CM6-R Series	U.3	960GB, 1920GB, 3840GB, 7680GB, 15360GB, 30720GB	
KIOXIA	CD6-R Series	U.3	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD7-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
Solidigm	D7-P5510	U.2	3.84TB, 7.68TB	
Micron	7450 MAX	U.3	800GB, 1.6TB, 3.2TB, 6.4TB, 12.8TB	
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	

Certified Cable Accessories

Manufacturer	Model	Description
HighPoint Technologies, Inc.	HighPoint 8654-8611	SFF-8654 NVMe Host to SFF-8611 NVMe HD-Mini-SAS Device cables, for use with the ICY DOCK
HighPoint Technologies, Inc.	HighPoint 8654-8639	SFF-8654 to SFF-8639 NVMe device (U.2) cable, for use direct connection to R1580B
HighPoint Technologies, Inc.	HighPoint 8654-8643	SFF-8654 NVMe Host to SFF-8643 NVMe HD-Mini-SAS Device cables, for use with the ICY DOCK

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