

HighPoint R1528D Compatibility List

2025/8/14

This document was designed to serve as general reference for compatibility between the HighPoint R1528D and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint R1528D PCIe 4.0 x16 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 Rocket1528D NVMe Switch Adapters can be used with "Non-Bifurcation" motherboards.*

Motherboard Compatibility List

Notes:

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

The R1528D does not support Lenovo ThinkStation P620.

Manufacture	Product Name	Chipset	Recommended PCIe slot #
ASRock	ROMED8-2T	AMD EPYC 7002/7003 Series	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7
ASRock	Z790 PG Lightning	Intel Z790	PCIE1
ASRock	WRX90 WS EVO	AMD WRX90	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE7
ASUS	MAXIMUS Z790 DARK HERO	Intel Z790	PCIEX16(G5)_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	Prime X870-P WiFi	AMD X870	PCIEX16(G5)
GIGABYTE	Z790M AORUS ELITE AX	Intel Z790	PCIEX16
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	H11Dsi	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 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-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	SYS-2025HS-TNR	AMD EPYC 9004 Series	Slot1 PCIe 5.0X16 Slot3 PCIe 5.0X16 Slot5 PCIe 5.0X16 Slot7 PCIe 5.0X16 Slot8 PCIe 5.0X16
Supermicro	H13DSH	AMD EPYC 9004 Series	2X PCIe5.0 X16 via Riser slot
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 Slot11PCIe 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	
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	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	
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	CM7-R Series	U.3	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CD8P-R Series	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CM7-V Series	U.3	12800GB, 6400GB, 3200GB, 1600GB	

U.2 NVMe SSD Hot-plug 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				
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	
PCIe Gen5				
KIOXIA	CD8P-R Series	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CM7-V Series	U.3	12800GB,6400GB,3200GB,1600GB	

Certified Cable Accessories

Manufacturer	Model	Description
HighPoint Technologies, Inc.	8654-8611-205	SFF-8654 Host to SFF-8611 NVMe HD-Mini-SAS Device cables, for use with the ICY DOCK
HighPoint Technologies, Inc.	TS8i-8639-060	SFF-8654 to SFF-8639 NVMe device(U.2) cable, for use direct connection to R1528D
HighPoint Technologies, Inc.	8654-8654-110	SFF-8654 Host to SFF-8654 Motherboard backplane
HighPoint Technologies, Inc.	8654-8643-210	SFF-8654 Host to SFF-8643 NVMe HD-Mini-SAS Device cables, for use with the ICY DOCK
HighPoint Technologies, Inc.	8654-CIO8-110	SFF-8654 Host to MCIO Motherboard backplane

External Enclosure Compatibility List

Manufacturer	Model	Supported HighPoint Cable	Support Drive Size	Compatible Drive Type
ICYDOCK	MB699VP-B V3	8654-8611-205	2.5" (up to 15mm height)	U.2/U.3
ICYDOCK	MB118VP-B	8654-8654-110	2.5" (up to 7mm height)	U.2/U.3

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