HighPoint R7628A Compatibility List

2026/3/20

This document was designed to serve as general reference for compatibility between the HighPoint R7628A and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint R7628A x16 PCIE 5.0 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 Rocket7628A series NVMe RAID Adapter 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.

To hot-plug disk on the ASUS Pro WS WRX90E-SAGE SE, you need to set Enable AER Cap to Disabled in BIOS→AMD CBS →NBIO Common Options.

PCIe error may occur when using the product on certain Dell motherboards. The error do not affect product functionality. To resolve this, obtain the BSW firmware from us for an update. After updating, certain features (such as UEFI Utility, HII Utility, and BootRAID) will become unavailable.

Manufacture	Product Name	Chipset	Recommended PCIe slot #	Data RAID support	Boot RAID support
ASRock	ROMED8-2T	AMD EPYC 7002/7003 Series	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7	√	√
ASRock	WRX90 WS EVO	AMD WRX90	PCIE1 PCIE2 PCIE3 PCIE4 PCIE5 PCIE7	√	√
ASRock	Z790 PG Lightning- PCIE5.0	Intel Z790	PCIE1	√	√
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 Ryzen™ Threadripper™ Pro 7965WX	PCIEX16(G5) _1 PCIEX16(G5) _2 PCIEX16(G5) _3 PCIEX16(G5) _4 PCIEX16(G5) _5 PCIEX16(G5) _6 PCIEX16(G5) _7	√	√
ASUS	Pro WS TRX50-SAGE WIFI	AMD TRX50	PCIEX16(G5)_1 PCIEX16(G5)_2 PCIEX16(G4)_2	√	√
ASUS	ProArt X670E-CREATOR WIFI	AMD X670	PXIEX16_1, PCIEX16_2, PCIEX16_3	√	√
ASUS	MAXIMUS Z790 DARK HERO	Intel Z790	PCIEX16(G5)_1	√	√
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)	√	√
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	√	√
HP	Z6 G5 A	AMD Pro 695	SLOT1 PCIe5X16 SLOT2 PCIe5X16 SLOT4 PCIe5X16 SLOT5 PCIe5X16 SLOT6 PCIe4X16	√	√
Supermicro	H11Dsi	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCIe 3.0 x16 CPU1 SLOT4 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	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	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	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-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	√	√
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	
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	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	
SANDISK	SN655	U.3	3.84TB, 7.68TB, 15.36TB, 30.72TB, 61.44TB	
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	
ScaleFlux	CSD5310	U.3	7.68TB	

E3.S NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen5				
KIOXIA	CD8P-R	E3.S	1.92TB, 3.84TB, 7.68TB, 15.36TB	

Hot-plug U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen3				
KIOXIA	CM5-R Series	U.2	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Western Digital	Ultrastar DC SN640	U.2	800GB, 1600GB, 3200GB, 6400GB	
Intel	Optane P4800X	U.2	375GB, 750GB, 1.5TB	
Samsung	983 DCT	U.2	960GB, 1.92TB	
Western Digital	Ultrastar DC SN630	U.2	960GB, 1.92TB, 3.84TB, 6.4TB	
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	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	
SANDISK	SN655	U.3	3.84TB, 7.68TB, 15.36TB, 30.72TB, 61.44TB	
PCIe Gen5				
KIOXIA	CD8P-R Series	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CM7-V Series	U.3	12800GB, 6400GB, 3200GB, 1600GB	
ScaleFlux	CSD5310	U.3	7.68TB	

Hot-plug E3.S NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen5				
KIOXIA	CD8P-R	E3.S	1.92TB, 3.84TB, 7.68TB, 15.36TB	

SED U.2 NVMe SSD SED 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-CIO8-110	MCIO Host to SFF-8654 Motherboard backplane
HighPoint Technologies, Inc.	CIO8-8639-110	MCIO to SFF-8639 cable is used for NVMe devices (U.2) connected to the R7628A
HighPoint Technologies, Inc.	CIO8-CIO8-110	MCIO Host to MCIO Motherboard backplane
HighPoint Technologies, Inc.	CIO8-1002-110	MCIO to 1002 cable is used for NVMe devices (E3.S) connected to the R7628A

External Enclosure Compatibility List

Manufacturer	Model	Supported HighPoint Cable	Support Drive Size	Compatible Drive Type
Gen4				
ICYDOCK	MB118VP-B	8654-CIO8-110	2.5" (up to 7mm height)	U.2/U.3
Gen5				
ICYDOCK	MB699V5P-B	CIO8-CIO8-110	2.5" (up to 15mm height)	U.2/U.3

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