

HighPoint Rocket 1604A Compatibility List

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This document was designed to serve as general reference for compatibility between the HighPoint Rocket 1604A NVMe Switch AIC and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint Rocket 1604A 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 Rocket 1604A NVMe Switch AIC 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.

For GA Server motherboards (e.g., GIGABYTE MS03-6L0), the PCIe slot must be manually configured to Gen5 x16. This slot is designed for specific SKUs and cannot be auto-configured.

Manufacture	Product Name	Chipset/CPU Mode	Recommended PCIe slot #
ASRock	Z790 PG Lightning- PCIe5.0	Intel Z790	PCIe1
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
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	PCIEX16(G5)_1 PCIEX16(G5)_2 PCIEX16(G5)_3 PCIEX16(G5)_4 PCIEX16(G5)_5 PCIEX16(G5)_6 PCIEX16(G5)_7
ASUS	PRIME X670-P WIFI	AMD X670	PCIEX16_1(gen5)
ASUS	ASUS ProArt X670E-CREATOR WIFI	AMD X670	PXIEX16_1, PCIEX16_2, PCIEX16_3
ASUS	Pro WS TRX50-SAGE WIFI	AMD TRX50	PCIEX16(G5)_1 PCIEX16(G5)_2 PCIEX16(G4)_2
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 Workstation	Intel W790	SLOT1 PCIe5 x16 SLOT4 PCIe4 x16 SLOT5 PCIe5 x16 SLOT8 PCIe4 x16
GIGABYTE	Z790M AORUS ELITE AX	Intel Z790	PCIEX16
GIGABYTE	MS03-6L0	Intel C741	PCIe2 PCIe3 PCIe4 PCIe5 PCIe6
HP	Z6 G5 A	AMD Pro 695	SLOT 1:PCIe Gen5 x16 SLOT 2:PCIe Gen5 x16 SLOT 4:PCIe Gen5 x16 SLOT 5:PCIe Gen5 x16 SLOT 6:PCIe Gen5 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	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	H12DSG-O	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot
Supermicro	H12DSi-NT6	AMD EPYC 7002/7003 Series	CPU SLOT2 PCI-E 4.0 x16 CPU SLOT4 PCI-E 4.0 x16 CPU SLOT6 PCI-E 4.0 x16
Supermicro	H12DSU-iN	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot
Supermicro	H12SSW-NT	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot
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	SYS-2025HS-TNR	AMD EPYC 9004 Series	SLOT1, SLOT3, SLOT5, SLOT7
Supermicro	H13DSH	AMD EPYC 9004 Series	JPCIE1 x16, JPCIE2 x16
Supermicro	SYS-741GE-TNRT	Intel C741	P1 SLOT2, P1 SLOT4, P2 SLOT5, P2 SLOT7, P2 SLOT9, P2 SLOT10 P2 SLOT11
Supermicro	X13SEI-TF	Intel C741	CPU SLOT4 PCIe 5.0 x16 CPU SLOT6 PCIe 5.0 x16
Supermicro	X14SBI-F	Intel® Xeon® 6511P	Slot1 PCIe 5.0X16 Slot3 PCIe 5.0X16 Slot6 PCIe 5.0X16

NVMe SSD Compatibility List

Notes:

None of the M.2 disks on the compatibility list have heat sinks. Disks with heat sinks are not supported. "Double Side" indicates a double-sided SSD. Designs may vary by capacity within the same model; confirm with the drive manufacturer.

Manufacture	Model/Series	Form Factor	Capacity
PCIe Gen4			
Samsung	980PRO	M.2 2280	250GB, 500GB, 1TB, 2TB
Samsung	990PRO	M.2 2280	1TB, 2TB, 4TB
Samsung	990EVO	M.2 2280	1TB, 2TB
Seagate	FireCuda 530	M.2 2280	500GB, 1TB, 2TB, 4TB

Sabrent	Rocket NVMe 4.0	M.2 2280, Double Side	500GB, 1TB, 2TB
Sabrent	Rocket 4 Plus	M.2 2280, Double Side	500GB,1TB, 2TB, 4TB, 8TB
KIOXIA	XG8 Series	M.2 2280, Double Side	512GB, 1024GB, 2048GB, 4096GB
Phison	PS5018-E18	M.2 2280, Double Side	2000GB,2048GB,4000GB,4096GB,8000GB,8192GB
Phison	PS5027-E27T	M.2 2280	512GB, 500GB, 1024GB, 1000GB, 2048GB, 2000 GB
Western Digital	SN850X	M.2 2280	1TB, 2TB, 4TB, 8TB
PCIe Gen5			
Crucial	Crucial T700	M.2 2280, Double Side	1TB, 2TB, 4TB
Crucial	Crucial T705	M.2 2280, Double Side	1TB, 2TB, 4TB
Phison	PS5026-E26 Gen5 Pro	M.2 2280, Double Side	1000GB, 2000GB, 4000GB
Phison	PS5031-E31T	M.2 2280	1TB-8TB
Samsung	9100 PRO	M.2 2280, Double Side	1TB, 2TB, 4TB, 8TB

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