

HighPoint R1628A Compatibility List

2024/11/15

This document was designed to serve as general reference for compatibility between the HighPoint R1628A and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint R1628A 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 Rocket1628A NVMe Switch Adapters 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 # |
|-------------|----------------------------------|-------------------------------------|---|
| 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 | 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 | 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 | 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 |
| HP | Z6 G5 A | AMD Pro 695 | SLOT1 PCIe5X16 SLOT2 PCIe5X16 SLOT4 PCIe5X16 SLOT5 PCIe5X16 SLOT6 PCIe4X16 |
| 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 |

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| | | | 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 | 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 SLOT5 PCI-E 3.0X16 |
| Supermicro | X11DPX-T | Intel C621 | JPCIE2(CPU1 SLOT2 PCI-E 3.0X16) JPCIE4(CPU1 SLOT4 PCI-E 3.0X16) JPCIE6(CPU2 SLOT6 PCI-E 3.0X16) JPCIE8(CPU2 SLOT8 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 | X11DPH-I | Intel C621 | CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16 |
| Supermicro | X11DPH-T | Intel C622 | 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 | 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 | SYS-2025HS-TNR | AMD EPYC 9004 Series | Slot1 PCIe 5.0X16 |

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| | | | Slot3 PCIe 5.0X16 Slot5 PCIe 5.0X16 Slot7 PCIe 5.0X16 Slot8 PCIe 5.0X16 |
| Supermicro | H13DSH | AMD EPYC 9004 Series | JPCI E1 x16 JPCI E2 x16 |
| Supermicro | X13SEI-TF | Intel C741 | JPCI E4 CPU SLOT4 PCIe 5.0 X16 JPCI E6 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 Slot11 PCIe 5.0X16 |

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 | |
| Western Digital | Ultrastar DC SN630 | U.2 | 960GB, 1.92TB, 3.84TB, 6.4TB | |
| Intel | Optane P4800X | U.2 | 375GB, 750GB, 1.5TB | |
| Samsung | 983 DCT | U.2 | 960GB, 1.92TB | |
| 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 | CM7-R Series | U.3 | 30720GB, 15360GB, 7680GB, 3840GB, 1920GB | |
| KIOXIA | CD8P-R Series | U.2 | 30720GB, 15360GB, 7680GB, 3840GB, 1920GB | |

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 | Adjust the PCIe Port Max Payload Size to 128B or 256B for proper use. |
| 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 | 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 Series | U.2 | 30720GB, 15360GB, 7680GB, 3840GB, 1920GB | |

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 | |

Certified Cable Accessories

| Manufacturer | Model | Description |
|------------------------------|---------------------|--|
| HighPoint Technologies, Inc. | HighPoint 8654-MCIO | MCIO Host to SFF-8654 Motherboard backplane. |
| HighPoint Technologies, Inc. | HighPoint MCIO-8639 | MCIO to SFF-8639 cable is used for NVMe devices (U.2) connected to the R1628A. |
| HighPoint Technologies, Inc. | HighPoint MCIO-MCIO | MCIO Host to MCIO Motherboard backplane. |
| HighPoint Technologies, Inc. | HighPoint MCIO-1002 | MCIO to 1002 cable is used for NVMe devices (E3.S) connected to the R1628A. |

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