

# HighPoint SSD7580B Compatibility List

2024/12/26

This document was designed to serve as general reference for compatibility between the HighPoint SSD7580B and specific motherboards/SSDs described herein.

The motherboards included in this document are recommended for HighPoint SSD7580B 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 SSD series NVMe RAID controllers 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.**
**Note: SSD7580B does not support Lenovo P620.**

| Manufacture | Product Name                         | Chipset                   | Recommended PCIe slot #   | Data RAID support | Boot RAID support |
|-------------|--------------------------------------|---------------------------|---|-------------------|-------------------|
| 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        | WS X299 SAGE                         | Intel X299                | PCIEX16_1, PCIEX16_3<br>PCIEX16_5, PCIEX16_7  | √                 | √                 |
| ASUS        | ROG ZENITH EXTREME                   | AMD X399                  | PCIEX16_1, PCIEX16_3  | √                 | √                 |
| ASUS        | PRIME X399-A                         | AMD X399                  | PCIEX16_1, PCIEX16_3  | √                 | √                 |
| ASUS        | ROG STRIX X399-E GAMING              | AMD X399                  | PCIEX16_1, PCIEX16_3  | √                 | √                 |
| 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   | √                 | √                 |
| ASUS        | Pro WS TRX50-SAGE WIFI               | AMD TRX50                 | PCIEX16(G5)_1<br>PCIEX16(G5)_2<br>PCIEX16(G4)_2   | √                 | √                 |
| ASUS        | Pro WS WRX80E-SAGE SE WIFI           | AMD WRX80                 | PCIE4.0/3.0 X16_1<br>PCIE4.0/3.0 X16_2<br>PCIE4.0/3.0 X16_3<br>PCIE4.0/3.0 X16_4<br>PCIE4.0/3.0 X16_5<br>PCIE4.0/3.0 X16_6<br>PCIE4.0/3.0 X16_7 | √                 | √                 |
| ASUS        | Pro WS WRX90E-SAGE SE                | AMD WRX90                 | PCIE X16(G5)_1<br>PCIE X16(G5)_2<br>PCIE X16(G5)_3<br>PCIE X16(G5)_4<br>PCIE X16(G5)_5<br>PCIE X16(G5)_6<br>PCIE X16(G5)_7                      | √                 | √                 |
| ASUS        | ASUS Pro WS W790E-SAGE SE            | Intel W790                | PCIE X16(G5)_1<br>PCIE X16(G5)_2<br>PCIE X16(G5)_3<br>PCIE X16(G5)_4<br>PCIE X16(G5)_5<br>PCIE X16(G5)_7  | √                 | √                 |
| ASUS        | MAXIMUS Z790 DARK HERO               | Intel Z790                | PCIEX16(G5)_1   | √                 | √                 |
| ASUS        | Prime X870-P WiFi                    | AMD X870                  | PCIEX16(G5)   | √                 | √                 |
| ASUS        | ProArt X670E-CREATOR WIFI            | AMD X670                  | PXIEX16_1<br>PCIEX16_2<br>PCIEX16_3   | √                 | √                 |
| ASRock      | Fatal1ty X299 Gaming K6              | Intel X299                | PCIE1, PCIE3  | √                 | √                 |
| ASRock      | Fatal1ty X299 Professional Gaming i9 | Intel X299                | PCIE1, PCIE3  | √                 | √                 |
| ASRock      | X299 Killer SLI/ac                   | Intel X299                | PCIE1, PCIE3  | √                 | √                 |
| ASRock      | X299 Taiichi                         | Intel X299                | PCIE1, PCIE3  | √                 | √                 |
| ASRock      | X99 WS                               | Intel X99                 | PCIE1, PCIE4  | √                 | √                 |
| ASRock      | ROMED8-2T                            | AMD EPYC 7002/7003 Series | PCIE1, PCIE2, PCIE3, PCIE4,<br>PCIE5, PCIE6, PCIE7  | √                 | √                 |
| ASRock      | Z790 PG Lightning                    | Intel Z790                | PCIE1   | √                 | √                 |

|            |                           |             |  |   |   |
|------------|---------------------------|-------------|--|---|---|
| ASRock     | WRX90 WS EVO              | AMD WRX90   | PCIE1<br>PCIE2<br>PCIE3<br>PCIE4<br>PCIE5<br>PCIE7   | ✓ | ✓ |
| Dell       | Precision 7960 Tower      | Intel W790  | PCIE5X16(SLOT1)<br>PCIE4X16(SLOT4)<br>PCIE5X16(SLOT5)<br>PCIE4X16(SLOT8)   | ✓ | ✓ |
| GIGABYTE   | Z790M AORUS ELITE AX      | Intel Z790  | PCIEX16  | ✓ | ✓ |
| 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   | X399 AORUS PRO            | AMD X399    | PCIEX16_1, PCIEX16_2   | ✓ | ✓ |
| GIGABYTE   | X399 AORUS XTREME         | AMD X399    | PCIEX16_1, PCIEX16_2   | ✓ | ✓ |
| GIGABYTE   | X399 DESIGNARE EX         | AMD X399    | PCIEX16_1, PCIEX16_2   | ✓ | ✓ |
| GIGABYTE   | X399 AORUS Gaming 7       | AMD X399    | PCIEX16_1, PCIEX16_2   | ✓ | ✓ |
| 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  | ✓ | ✓ |
| HP         | Z6 G5 A                   | AMD Pro 695 | SLOT1 PCIe5X16<br>SLOT2 PCIe5X16<br>SLOT4 PCIe5X16<br>SLOT5 PCIe5X16<br>SLOT6 PCIe4X16   | ✓ | ✓ |
| 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<br>CPU2 SLOT3 PCI-E 3.0X16   | ✓ | ✓ |
| Supermicro | X11Dpi-N                  | Intel C621  | CPU1 Slot2 PCI-E 3.0X16<br>CPU2 Slot4 PCI-E 3.0X16<br>CPU2 Slot5 PCI-E 3.0X16<br>CPU2 Slot6 PCI-E 3.0X16                                 | ✓ | ✓ |
| Supermicro | X11Dpi-NT                 | Intel C622  | CPU1 Slot2 PCI-E 3.0X16<br>CPU2 Slot4 PCI-E 3.0X16<br>CPU2 Slot5 PCI-E 3.0X16<br>CPU2 Slot6 PCI-E 3.0X16                                 | ✓ | ✓ |
| Supermicro | X11Dai-N                  | Intel C621  | CPU1 SLOT1 PCI-E 3.0X16<br>CPU1 SLOT2 PCI-E 3.0X16<br>CPU2 SLOT3 PCI-E 3.0X16<br>CPU2 SLOT5 PCI-E 3.0X16                                 | ✓ | ✓ |
| Supermicro | X11DPX-T                  | Intel C621  | JPCIE2(CPU1 SLOT2 PCI-E 3.0X16)<br>JPCIE4(CPU1 SLOT4 PCI-E 3.0X16)<br>JPCIE6(CPU2 SLOT6 PCI-E 3.0X16)<br>JPCIE8(CPU2 SLOT8 PCI-E 3.0X16) | ✓ | ✓ |
| Supermicro | X11DPH-TQ                 | Intel C627  | CPU2 SLOT2 PCI-E 3.0X16<br>CPU2 SLOT4 PCI-E 3.0X16<br>CPU2 SLOT5 PCI-E 3.0X16  | ✓ | ✓ |
| Supermicro | X11DPH-I                  | Intel C621  | CPU2 SLOT2 PCI-E 3.0X16<br>CPU2 SLOT4 PCI-E 3.0X16   | ✓ | ✓ |

|            |                |                           |   |   |   |
|------------|----------------|---------------------------|---|---|---|
|            |                |                           | CPU2 SLOT5 PCI-E 3.0X16   |   |   |
| Supermicro | X11DPH-T       | Intel C622                | CPU2 SLOT2 PCI-E 3.0X16<br>CPU2 SLOT4 PCI-E 3.0X16<br>CPU2 SLOT5 PCI-E 3.0X16   | √ | √ |
| Supermicro | X11DAC         | Intel C621                | CPU1 SLOT1 PCI-E 3.0X16<br>CPU2 SLOT3 PCI-E 3.0X16<br>CPU2 SLOT5 PCI-E 3.0X16   | √ | √ |
| Supermicro | X11Spi-TF      | Intel C622                | CPU SLOT4 PCI-E 3.0X16<br>CPU SLOT6 PCI-E 3.0X16  | √ | √ |
| Supermicro | X11SPM-TPF     | Intel C622                | CPU1 SLOT4 PCI-E 3.0X16<br>CPU1 SLOT6 PCI-E 3.0X16  | √ | √ |
| Supermicro | H11Dsi-NT      | AMD EPYC 7001/7002 Series | CPU1 SLOT2 PCI-E 3.0 x16<br>CPU1 SLOT4 PCI-E 3.0 x16  | √ | √ |
| Supermicro | H11Dsi         | AMD EPYC 7001/7002 Series | CPU1 SLOT2 PCI-E 3.0 x16<br>CPU1 SLOT4 PCI-E 3.0 x16  | √ | √ |
| Supermicro | H11SSL-NC      | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16<br>CPU SLOT4 PCI-E 3.0 x16<br>CPU SLOT6 PCI-E 3.0 x16   | √ | √ |
| Supermicro | H11SSL-i       | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16<br>CPU SLOT4 PCI-E 3.0 x16<br>CPU SLOT6 PCI-E 3.0 x16   | √ | √ |
| Supermicro | H11SSL-C       | AMD EPYC 7001/7002 Series | CPU SLOT2 PCI-E 3.0 x16<br>CPU SLOT4 PCI-E 3.0 x16<br>CPU SLOT6 PCI-E 3.0 x16   | √ | √ |
| Supermicro | H12SSL-i       | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16<br>CPU SLOT3 PCI-E 4.0 X16<br>CPU SLOT5 PCI-E 4.0 X16<br>CPU SLOT6 PCI-E 4.0 X16<br>CPU SLOT7 PCI-E 4.0 X16               | √ | √ |
| Supermicro | H12SSL-NT      | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16<br>CPU SLOT3 PCI-E 4.0 X16<br>CPU SLOT5 PCI-E 4.0 X16<br>CPU SLOT6 PCI-E 4.0 X16<br>CPU SLOT7 PCI-E 4.0 X16               | √ | √ |
| Supermicro | H12SSL-C       | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16<br>CPU SLOT3 PCI-E 4.0 X16<br>CPU SLOT5 PCI-E 4.0 X16<br>CPU SLOT6 PCI-E 4.0 X16<br>CPU SLOT7 PCI-E 4.0 X16               | √ | √ |
| Supermicro | H12SSL-CT      | AMD EPYC 7002/7003 Series | CPU SLOT1 PCI-E 4.0 X16<br>CPU SLOT3 PCI-E 4.0 X16<br>CPU SLOT5 PCI-E 4.0 X16<br>CPU SLOT6 PCI-E 4.0 X16<br>CPU SLOT7 PCI-E 4.0 X16               | √ | √ |
| Supermicro | X13SEI-TF      | Intel C741                | JPCIE4 CPU SLOT4 PCIe 5.0 X16<br>JPCIE6 CPU SLOT6 PCIe 5.0 X16  | √ | √ |
| Supermicro | SYS-2025HS-TNR | AMD EPYC 9004             | Slot1 PCIe 5.0X16<br>Slot3 PCIe 5.0X16<br>Slot5 PCIe 5.0X16<br>Slot7 PCIe 5.0X16<br>Slot8 PCIe 5.0X16   | √ | √ |
| Supermicro | SYS-741GE-TNRT | Intel C741                | Slot2 PCIe 5.0X16<br>Slot4 PCIe 5.0X16<br>Slot5 PCIe 5.0X16<br>Slot7 PCIe 5.0X16<br>Slot9 PCIe 5.0X16<br>Slot10 PCIe 5.0X16<br>Slot11 PCIe 5.0X16 | √ | √ |

**U.2 NVMe SSD Compatibility List**

| Manufacture      | Model/Series  | Form Factor | Capacity                               | Remark |
|------------------|---------------|-------------|--|--------|
| <b>PCIe Gen3</b> |               |             |  |        |
| Intel            | Optane P4800X | U.2         | 375GB, 750GB, 1.5TB                    |        |
| Samsung          | 983 DCT       | U.2         | 960GB, 1.92TB                          |        |
| KIOXIA           | CM5-R         | U.2         | 960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB |        |
| KIOXIA           | XD5           | U.2         | 960GB, 1920GB, 3840GB                  |        |
| KIOXIA           | CD5           | 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 | 3.2TB, 1.6TB, 800GB                             |  |
| Micron           | 9300 PRO           | U.2 | 3.84TB, 7.68TB, 15.36TB                         |  |
| Micron           | 9300 Max           | U.2 | 3.2TB, 6.4TB, 12.8TB                            |  |
| <b>PCIe Gen4</b> |                    |     |   |  |
| KIOXIA           | CM6-R              | U.2 | 960GB, 1920GB, 3840GB, 7680GB, 15360GB, 30720GB |  |
| KIOXIA           | CM6-V              | U.2 | 800GB, 1600GB, 3200GB, 6400GB, 12800GB          |  |
| KIOXIA           | CD6-R              | U.2 | 960GB, 1920GB, 3840GB, 7680GB, 15360GB          |  |
| KIOXIA           | CD6-V              | U.2 | 800GB, 1600GB, 3200GB, 6400GB, 12800GB          |  |
| KIOXIA           | CD8-R              | U.2 | 960GB, 1920GB, 3840GB, 7680GB, 15360GB          |  |
| KIOXIA           | KCD7-R             | U.2 | 960GB, 1920GB, 3840GB, 7680GB, 15360GB          |  |
| KIOXIA           | KCD7-V             | U.2 | 800GB, 1600GB, 3200GB, 6400GB, 12800GB          |  |
| SOLIDIGM         | D7-P5510           | U.2 | 3.84TB, 7.68TB                                  |  |
| Micron           | 7450 MAX           | U.3 | 800GB, 1.6TB, 3.2TB, 6.4TB, 12.8TB              |  |
| Western Digital  | Ultrastar DC SN650 | U.3 | 7.68TB, 15.36TB                                 |  |
| 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                   |  |
| <b>PCIe Gen5</b> |                    |     |   |  |
| KIOXIA           | CD8P-R             | U.2 | 30720GB, 15360GB, 7680GB, 3840GB, 1920GB        |  |

### Hot-plug U.2 NVMe SSD Compatibility List

| Manufacture      | Model/Series       | Form Factor | Capacity  | Remark |
|------------------|--------------------|-------------|---|--------|
| <b>PCIe Gen3</b> |                    |             |   |        |
| Intel            | Optane P4800X      | U.2         | 375GB, 750GB, 1.5TB                             |        |
| Samsung          | 983 DCT            | U.2         | 960GB, 1.92TB                                   |        |
| KIOXIA           | CM5-R              | 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 Max           | U.2         | 3.2TB, 6.4TB, 12.8TB                            |        |
| <b>PCIe Gen4</b> |                    |             |   |        |
| KIOXIA           | CD7-R              | U.2         | 960GB, 1920GB, 3840GB, 7680GB, 15360GB          |        |
| KIOXIA           | CD6-R              | U.2         | 960GB, 1920GB, 3840GB, 7680GB, 15360GB          |        |
| KIOXIA           | CM6-R              | U.2         | 960GB, 1920GB, 3840GB, 7680GB, 15360GB, 30720GB |        |
| SOLIDIGM         | D7-P5510           | U.2         | 3.84TB, 7.68TB                                  |        |

### 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 U.2 ICY DOCK |
| HighPoint Technologies, Inc. | HighPoint 8654-8639 | SFF-8654 to SFF-8639 NVMe device (U.2) cable, for use direct connection to SSD7580B          |

If you have any questions about NVMe compatibility, please contact us at [Sales@highpoint-tech.com](mailto:Sales@highpoint-tech.com)