

HighPoint RocketAIC 7540HW Series Compatibility List

2025/8/5

This document was designed to serve as general reference for compatibility between the HighPoint RocketAIC 7540HW Series and specific motherboards's described herein.

The motherboards included in this document are recommended for HighPoint RocketAIC 7540HW Series x16 PCIE 4.0 or 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 RocketAIC series NVMe Drives 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.

RocketAIC 7540HW Series does not support Lenovo ThinkStation P620.

Manufacture	Product Name	Chipset/CPU Model	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 PCIEX16_5, PCIEX16_7	✓	✓
ASUS	PRIME Z390 SERIES	Intel Z390	PCIEX16_1	✓	✓
ASUS	Prime Z590-P	Intel Z590	PCIEX16_1(gen4)	✓	✓
ASUS	ROG STRIX Z590-E	Intel Z590	PCIEX16_1(gen4)	✓	✓
ASUS	MAXIMUS XIII HERO	Intel Z590	PCIEX16_1	✓	✓
ASUS	ROG MAXIMUS Z690 HERO	Intel Z690	PCIEX16(G5)_1	✓	✓
ASUS	ProArt Z690-CREATOR WIFI	Intel Z690	PCIEX16_1(gen5)	✓	✓
ASUS	P12R-M	Intel C252	PCIEX16(gen4)	✓	✓
ASUS	P12R-E	Intel C256	PCIEX16(gen4)	✓	✓
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	Pro WS X570-ACE	AMD X570	PCIEX16_1(gen4)	✓	✓
ASUS	PRIME X570-P	AMD X570	PCIEx16_1	✓	✓
ASUS	PRIME X570-PRO	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	PRIME X670-P WIFI	AMD X670	PCIEX16_1(gen5)	✓	✓
ASUS	ROG Zenith II Extreme Alpha	AMD TRX40	PCIEX16_1, PCIEX16_3(gen4)	✓	✓
ASUS	PRIME TRX40-PRO	AMD TRX40	PCIEX16_1, PCIEX16_2, PCIEX16_3	✓	✓
ASUS	PRIME TRX40-PRO S	AMD TRX40	PCIEX16_1, PCIEX16_2, PCIEX16_3	✓	✓
ASUS	ROG Strix TRX40-E Gaming	AMD TRX40	PCIEX16_1, PCIEX16_2, PCIEX16_3	✓	✓
ASUS	ROG STRIX TRX40-XE GAMING	AMD TRX40	PCIEX16_1, PCIEX16_2, PCIEX16_3	✓	✓
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	KRPA-U16	AMD EPYC 7002/7003 Series	PCIEx24_6(gen4)	✓	✓
ASUS	ASUS RS720A-E11-RS12	AMD EPYC 7003 Series	PCIEX16(gen4)	✓	✓
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	Z590 UD AC	Intel Z590	PCIEX16_1(gen4)	✓	✓
GIGABYTE	Z690 AORUS MASTER	Intel Z690	PCIEX16_1(gen5)	✓	✓
GIGABYTE	Z790-AORUS-ELITE-AX	Intel Z790	PCIEX16_1(gen5)	✓	✓
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	✓	✓
GIGABYTE	GA-TRX40 AORUS XTREME	AMD TRX40	PCIEx16_1, PCIEX16_2(gen4)	✓	✓
GIGABYTE	TRX40 AORUS Pro WiFi	AMD TRX40	PCIEx16_1, PCIEX16_2(gen4)	✓	✓
GIGABYTE	TRX40 AORUS Master	AMD TRX40	PCIEx16_1, PCIEX16_2(gen4)	✓	✓
GIGABYTE	GA-WRX80-SU8-IPMI	AMD WRX80	PCIEX16_1, PCIEX16_3 PCIEX16_4, PCIEX16_5 PCIEX16_6, PCIEX16_7(gen4)	✓	✓
GIGABYTE	MZ32-AR0	AMD EPYC 7002/7003 Series	PCIEX16_3, PCIEX16_4 PCIEX16_6, PCIEX16_7	✓	✓
GIGABYTE	MZ72-HB0	AMD EPYC 7002/7003 Series	PCIEX16_3, PCIEX16_4 PCIEX16_6(gen4)	✓	✓
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	DeskMeet B660	Intel B660	PCIEX16(gen4)	✓	✓
ASRock	X570 phantom gaming x	AMD X570	PCIEx16_1(gen4)	✓	✓
ASRock	WRX80 CREATOR	AMD WRX80	PCIEX16_1, PCIEX16_2 PCIEX16_3, PCIEX16_5 PCIEX16_7(gen4)	✓	✓
ASRock	ROMED8-2T	AMD EPYC 7002/7003 Series	PCIE1, PCIE2, PCIE3, PCIE4, PCIE5, PCIE6, PCIE7	✓	✓
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	✓	✗
MSI	Z590 WiFi Pro	Intel Z590	PCI_E1(gen4)	✓	✓
MSI	MPG Z590 GAMING CARBON WIFI	Intel Z590	PCI_E1(gen4)	✓	✓
MSI	PRO Z690-A	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MEG Z690 ACE	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MPG Z690 EDGE TI	Intel Z690	PCI_E1(gen5)	✓	✓
MSI	MPG Z690 CARBON WIFI	Intel Z690	PCI_E1(gen5)	✓	✓
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	X11DAC	Intel C621	CPU1 SLOT1 PCI-E 3.0X16 CPU2 SLOT3 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	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	X11DPH-T	Intel C622	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 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	X11DPH-TQ	Intel C627	CPU2 SLOT2 PCI-E 3.0X16 CPU2 SLOT4 PCI-E 3.0X16 CPU2 SLOT5 PCI-E 3.0X16	✓	✓
Supermicro	H11DSi-NT	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16	✓	✓
Supermicro	H11DSi	AMD EPYC 7001/7002 Series	CPU1 SLOT2 PCI-E 3.0 x16 CPU1 SLOT4 PCI-E 3.0 x16	✓	✓
Supermicro	H11SSL-NC	AMD EPYC 7001/7002 Series	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16	✓	✓
Supermicro	H11SSL-i	AMD EPYC 7001/7002 Series	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16	✓	✓
Supermicro	H11SSL-C	AMD EPYC 7001/7002 Series	CPU SLOT2 PCI-E 3.0 x16 CPU SLOT4 PCI-E 3.0 x16 CPU SLOT6 PCI-E 3.0 x16	✓	✓
Supermicro	X12STH-LN4F	Intel C256	CPU1 SLOT6 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	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	AS -4124GS-TNR	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	AS -1024US-TRT	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	AS -1124US-TNRP	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	AS -2024US-TRT	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	AS -2124US-TNRP	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	AS -1014S-WTRT	AMD EPYC 7002/7003 Series	1X PCIE4.0 X16 via Riser slot 1X PCIE4.0 X32 via Riser slot	✓	✓
Supermicro	AS -1114S-WTRT	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	M12SWA-TF	AMD WRX80	CPU1 SLOT1 PCI-E 4.0 x16 CPU2 SLOT2 PCI-E 4.0 x16 CPU1 SLOT3 PCI-E 4.0 x16 CPU2 SLOT5 PCI-E 4.0 x16 CPU1 SLOT6 PCI-E 4.0 x16 CPU1 SLOT7 PCI-E 4.0 x16	✓	✓
Supermicro	X13SAE-F	Intel W680	CPU1 SLOT7 PCI-E 4.0 x16	✓	✓
Supermicro	AS -1015CS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS -1115CS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS -2015CS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS -1125HS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS -2025HS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS -2125HS-TNR	AMD EPYC 9004 Series	2X PCIE5.0 X16 via Riser slot	✓	✓
Supermicro	AS-1024US-TRT	AMD EPYC 7002/7003 Series	2X PCIE4.0 X16 via Riser slot	✓	✓
Dell	Precision 7920 Tower	Intel C621	PCIe3x16 75W(slot2) PCIe3x16 75W(slot4)	✓	✓
Dell	Precision 7960 Tower	Intel W790	PCIe5X16 (slot1) PCIe4X16 (slot4) PCIe5X16 (slot5) PCIe4X16 (slot8)	✓	✓
Dell	Precision T3660	Intel W680	PCIE5.0 X16	✓	✓
HP	HPE Proliant ML30 Gen10 Plus Server	Intel C256	PCIE4.0 X16_1	✓	✓
HP	HPE Proliant ML110 Gen10 Server	Intel C621	PCIEX16_1,PCIEX16_4(gen3)	✓	✓
HP	HPE Proliant ML350 Gen10 Server	Intel C622	PCIEX16_1,PCIEX16_3 PCIEX16_5,PCIEX16_7(gen3)	✓	✓

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