

HighPoint Rocket 1624L Compatibility List

2026/6/24

This document was designed to serve as general reference for compatibility between the HighPoint Rocket 1624L Gen5 NVMe Switch Adapter and specific motherboards's described herein.

The motherboards included in this document are recommended for HighPoint Rocket 1624L x16 PCIE5.0 configurations. Specific motherboards may have special requirements or restrictions. Please refer to the motherboard's PCIe Expansion slot settings.

Note: *Bifurcation is required. The motherboard must be configured to PCIe Bifurcation mode to work with the R1624L.*

Motherboard Compatibility List

Notes:

The recommended PCIe slot we filled in are based on the description of the motherboard manual.

The maximum number of supported U.2 SSDs is dependent on the specific CPU model.

The adapter supports x16, x8x8, and x4x4x4x4 modes. Set the motherboard's PCIe bifurcation mode to match the selected adapter mode according to your specific requirements.

● Intel Chipset

Intel Chipset	Model & CPU	Recommended PCIe Slot	PCIe bifurcation in PCIe slot
			U.2 SSD /GPU quantity
Intel C621A	Super Micro X12DPi-N6 CPU: Intel® Xeon® Silver 4314*2	CPU1 SLOT2 PCIe4.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU1 SLOT3 PCIe4.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU2 SLOT4 PCIe4.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU2 SLOT5 PCIe4.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
Intel Z890	ASUS PRIME Z890-P WIFI CPU: Intel Core Ultra 9 285K	PCIEX16(G5)	3(x8+x4+x4)
			2(x8+x8)
			1(x16)

	GIGABYTE Z890M AORUS ELITE WIFI7 CPU: Intel Core Ultra 9 285K	PCIEX16(G5)	3(x8+x4+x4)
			2(x8+x8)
			1(x16)
Intel W790	ASUS Pro WS W790E-SAGE SE CPU: Intel Xeon w5-3535X	PCIEX16(G5)_1	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_2	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_3	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_4	4(x4+x4+x4+x4)
			1(x16)
	Dell Precision 7960 Tower Workstation CPU: Intel® Xeon® W5-3423	PCIEX16(G5)_5	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_7	4(x4+x4+x4+x4)
			1(x16)
		SLOT1 PCIe 5.0x16	1(x16)
			1(x16)
		SLOT4 PCIe 4.0x16	1(x16)
			1(x16)
Intel C741	Super Micro X13SEI-TF CPU: Intel Xeon silver 4510 Processor	CPU SLOT4 PCIe5.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU SLOT6 PCIe5.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)

	GIGABYTE MS03-6L0 CPU: Intel Xeon silver 4410Y	PCIE_2	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE_3	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE_4	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE_5	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE_6	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
	Supermicro SYS-741GE-TNRT CPU: Intel Xeon silver 4410Y	Slot2 PCIe 5.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		Slot4 PCIe 5.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		Slot5 PCIe 5.0x16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		Slot7 PCIe 5.0x16	4(x4+x4+x4+x4)

		Slot9 PCIe 5.0x16	2(x8+x8)
			1(x16)
			4(x4+x4+x4+x4)
		Slot10 PCIe 5.0x16	2(x8+x8)
			1(x16)
			4(x4+x4+x4+x4)
		Slot11 PCIe 5.0x16	2(x8+x8)
			1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
			4(x4+x4+x4+x4)

● AMD Chipset

AMD Chipset	Model	Recommended PCIe Slot	PCIe bifurcation in PCIe slot
			U.2 SSD/GPU quantity
AMD EPYC 7002/7003 series	Super Micro H12SSL-i CPU: AMD EPYC™ 7282	CPU SLOT1 PCI-E 4.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU SLOT3 PCI-E 4.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU SLOT5 PCI-E 4.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		CPU SLOT6 PCI-E 4.0X16	4(x4+x4+x4+x4)

			2(x8+x8)
			1(x16)
		CPU SLOT7 PCI-E 4.0X16	4(x4+x4+x4+x4)
			2(x8+x8)
	ASROCK ROMED8-2T CPU: AMD EPYC™ 7282	PCIE1	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE2	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE3	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE4	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE5	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE6	1(x16)
			4(x4+x4+x4+x4)
			2(x8+x8)
		PCIE7	1(x16)
			4(x4+x4+x4+x4)

			1(x16)
AMD Pro 695	HP Z6 G5 A CPU: AMD Ryzen™ Threadripper Pro 7945wx	SLOT1 PCIe5x16 CPU	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		SLOT2 PCIe5x16 CPU	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		SLOT4 PCIe5x16 CPU	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		SLOT5 PCIe5x16 CPU	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		SLOT6 PCIe4x16 CPU	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
AMD TRX50	ASUS Pro WS TRX50-SAGE WIFI CPU: AMD Ryzen™ Threadripper ™ Pro 7960X	PCIEX16(G5)_1	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_2	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G4)_2	4(x4+x4+x4+x4)
			1(x16)
AMD WRX80	ASUS Pro WS WRX80E-SAGE SE WIFI CPU: AMD Ryzen™ Threadripper	PCIEX16_1	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)

	™ Pro 5965WX	PCIEX16_2	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIEX16_3	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIEX16_4	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIEX16_5	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
AMD WRX90	ASUS Pro WS WRX90E-SAGE SE CPU: AMD Ryzen™ Threadripper ™ Pro 7965WX	PCIEX16_6	4(x4+x4+x4+x4)
			2(x8+x8)
		PCIEX16_7	4(x4+x4+x4+x4)
			2(x8+x8)
		PCIEX16(G5)_1	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_2	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_3	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_4	4(x4+x4+x4+x4)

			1(x16)
		PCIEX16(G5)_5	4(x4+x4+x4+x4)
			1(x16)
		PCIEX16(G5)_7	4(x4+x4+x4+x4)
			1(x16)
	ASROCK WRX90 WS EVO CPU: AMD Ryzen™ Threadripper ™ Pro 7965WX	PCIE1	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE2	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE3	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE4	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE5	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
		PCIE7	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)
X670	ASUS PROART X670E - creator CPU: AMD Ryzen™ 9 7950X	PCIEX16_1	4(x4+x4+x4+x4)

			1(x16)
X870	ASUS PRIME X870-P WIFI CPU: AMD Ryzen™ 5 9600X	PCIEX16(G5)	4(x4+x4+x4+x4)
			2(x8+x8)
			1(x16)

NVMe SSD Compatibility List

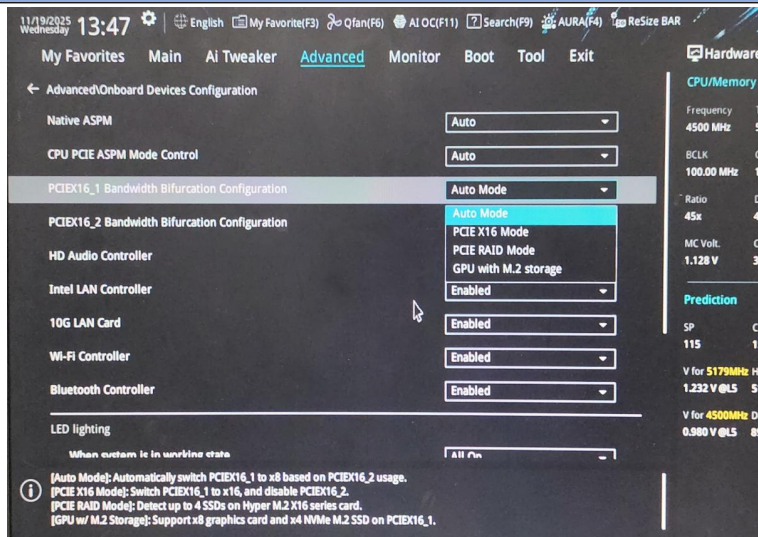
Manufacture	Model/Series	Form Factor	Capacity	Remark
PCIe Gen4				
Solidigm	D7-P5510	U.2	3.84TB, 7.68TB	
Solidigm	D5-P5336	U.2	7.68TB,15.36TB,30.72TB,61.44TB,122.88TB	
KIOXIA	KCD8-R Series	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	KCM6-R Series	U.3	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD7-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	
PCIe Gen5				
KIOXIA	CM7-R	U.3	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CD8P-R	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	

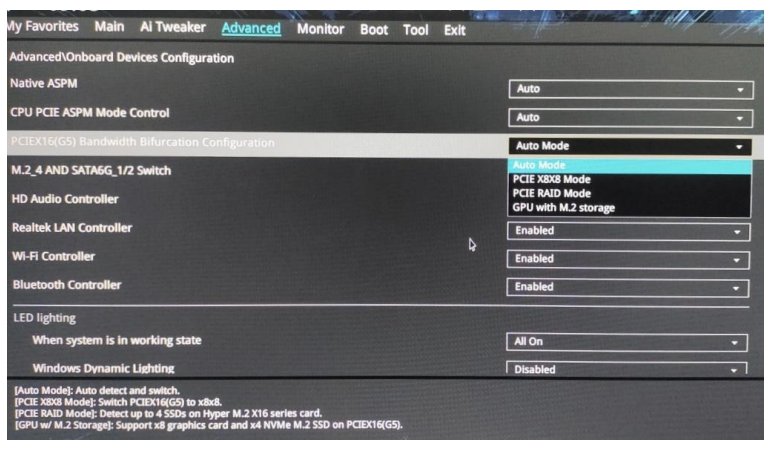
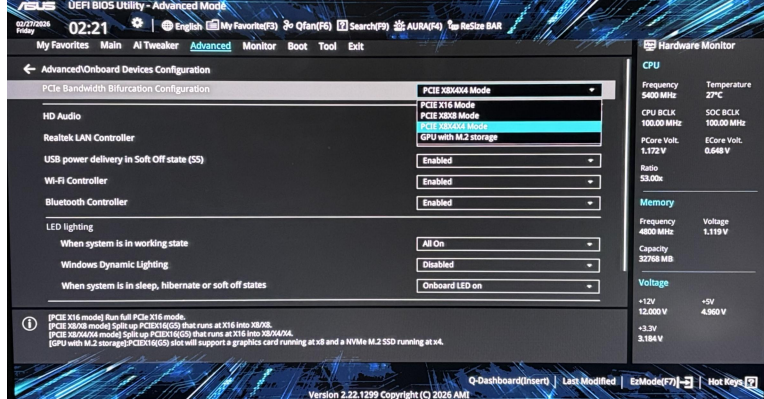
If you have any questions about compatibility, please contact us at Sales@highpoint-tech.com

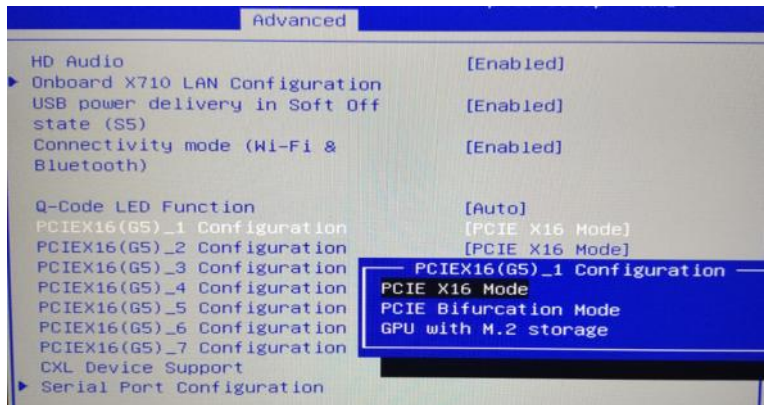
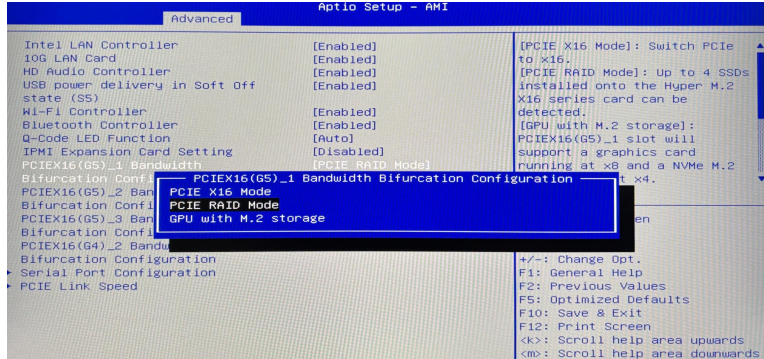
Appendix

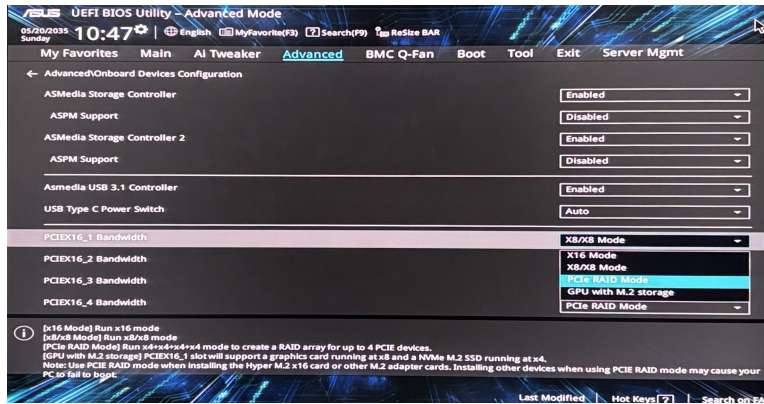
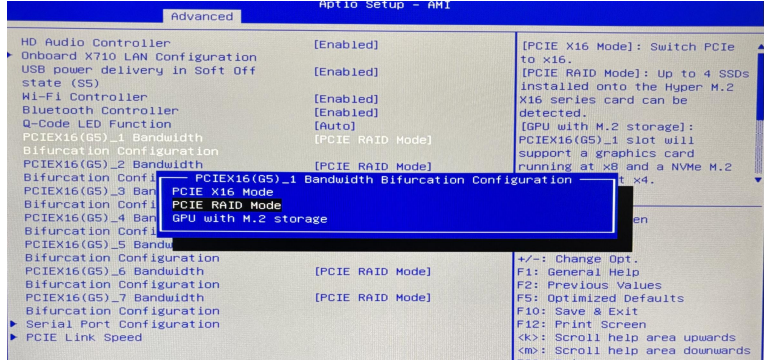
Note: The BIOS setup path is derived from HighPoint test results and is provided for customer reference.

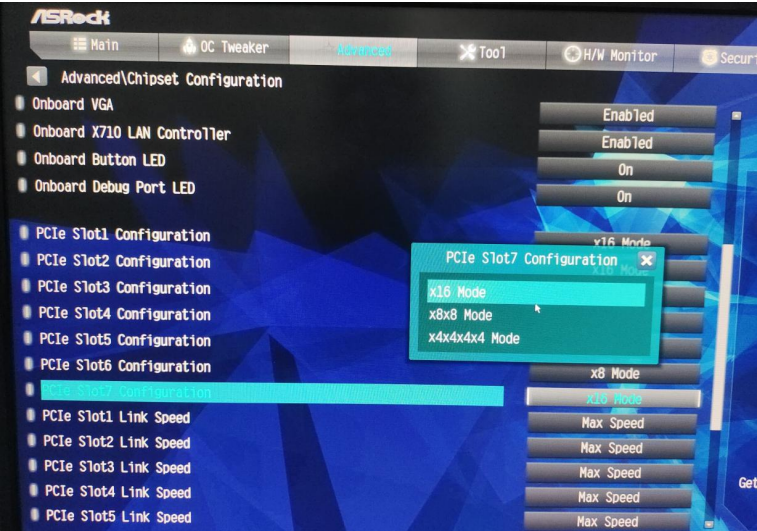
1. ASUS

Classification	Motherboard	BIOS Setup Path	Support for Motherboard Bifurcation Mode
Desktop	ASUS PROART X670E - creator	Advanced → Onboard Devices Configuration → PCEX16_1 Bandwidth Bifurcation Configuration	 The screenshot shows the ASUS BIOS 'Advanced' tab, specifically the 'Onboard Devices Configuration' section. The 'PCIEX16_1 Bandwidth Bifurcation Configuration' is set to 'Auto Mode'. The 'PCIEX16_2 Bandwidth Bifurcation Configuration' is also set to 'Auto Mode'. Other settings like 'HD Audio Controller', 'Intel LAN Controller', '10G LAN Card', 'Wi-Fi Controller', and 'Bluetooth Controller' are all 'Enabled'. The 'LED lighting' is set to 'All On'. A note at the bottom explains the bifurcation modes: [Auto Mode]: Automatically switch PCIe16_1 to x8 based on PCIe16_2 usage. [PCIEX16 Mode]: Switch PCIe16_1 to x16, and disable PCIe16_2. [PCIEX16 RAID Mode]: Detect up to 4 SSDs on Hyper M.2 X16 series card. [GPU w/ M.2 Storage]: Support x8 graphics card and x4 NVMe M.2 SSD on PCIe16_1.

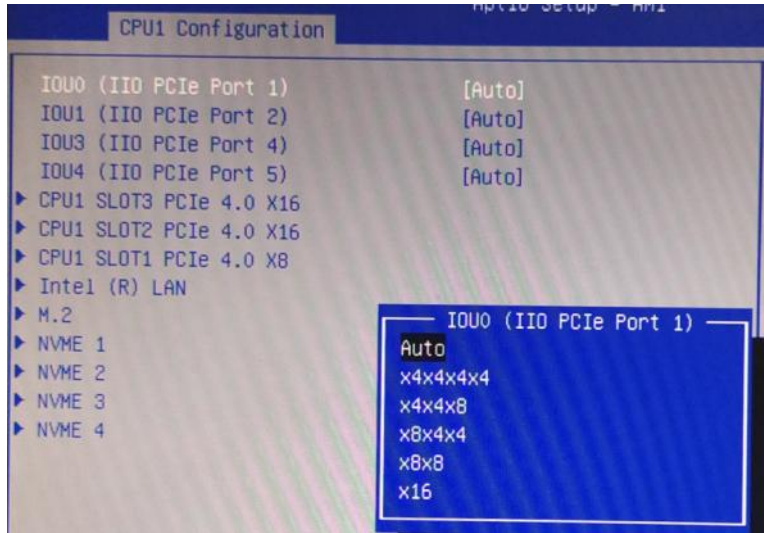
	ASUS PRIME X870-P WIFI	Advanced → Onboard Devices Configuration → PCIe16 (G5) Bandwidth Bifurcation Configuration	
	ASUS PRIME Z890-P WIFI	Advanced → Onboard Devices Configuration → PCIe Bandwidth Bifurcation Configuration	

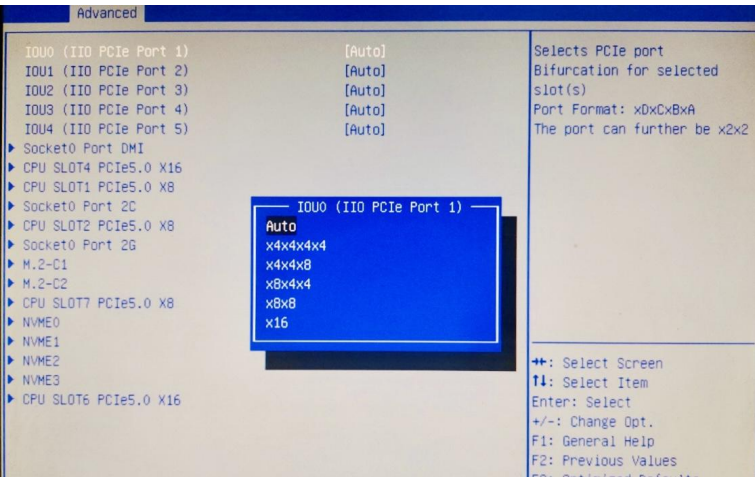
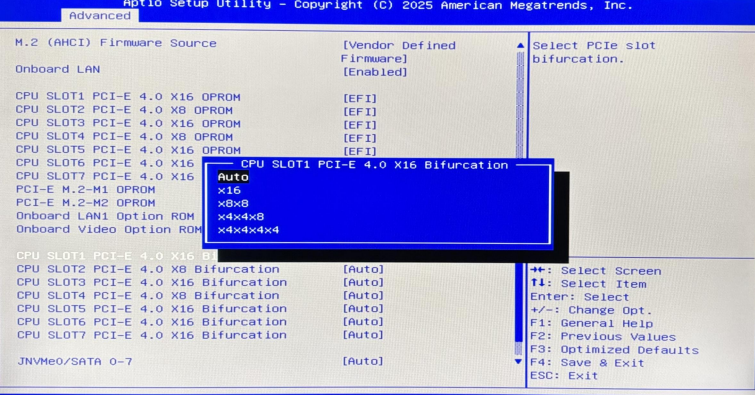
WorkStation	ASUS Pro WS W790E-SAGE SE	Advanced → Onboard Devices Configuration → PCIeX16(G5)_1 Configuration	
	ASUS Pro WS TRX50-SAGE WIFI	Advanced → Onboard Devices Configuration → PCIeX16(G5)_1 Bandwidth Bifurcation Configuration	

	ASUS Pro WS WRX80E-SAGE SE WIFI	Advanced → Onboard Devices Configuration → PCIEX16_1 Bandwidth	 UEFI BIOS Utility - Advanced Mode 10:47 My Favorites Main AI Tweaker Advanced BMC Q-Fan Boot Tool Exit Server Mgmt Advanced/Onboard Devices Configuration ASMedia Storage Controller: Enabled ASPM Support: Disabled ASMedia Storage Controller 2: Enabled ASPM Support: Disabled ASMedia USB 3.1 Controller: Enabled USB Type C Power Switch: Auto PCIEX16_1 Bandwidth: X8/X8 Mode PCIEX16_2 Bandwidth: X16 Mode PCIEX16_3 Bandwidth: X8/X8 Mode PCIEX16_4 Bandwidth: PCIe RAID Mode [x16 Mode] Run x16 mode [x8/x8 Mode] Run x8/x8 mode [PCIe RAID Mode] Run x4+x4+x4+x4 mode to create a RAID array for up to 4 PCIe devices. [GPU with M.2 storage] PCIe16_1 slot will support a graphics card running at x8 and a NVMe M.2 SSD running at x4. Note: Use PCIe RAID mode when installing the Hyper M.2 x16 card or other M.2 adapter cards. Installing other devices when using PCIe RAID mode may cause your PC to fail to boot. Last Modified: Hot Keys [F7] Search on F2
	ASUS Pro WS WRX90E-SAGE SE	Advanced → Onboard Devices Configuration → PCIEX16(G5)_1 Bandwidth Bifurcation Configuration	 Advanced AD16 Setup - ARI HD Audio Controller: [Enabled] Onboard X710 LAN Configuration: [Enabled] USB power delivery in Soft Off state (SS): [Enabled] W1-Fi Controller: [Enabled] Bluetooth Controller: [Enabled] Q-Code LED Function: [Auto] PCIEX16(G5)_1 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_2 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_3 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_4 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_5 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_6 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] PCIEX16(G5)_7 Bandwidth Bifurcation Configuration: [PCIe RAID Mode] Serial Port Configuration PCIe Link Speed [PCIe X16 Mode] [PCIe RAID Mode] GPU with M.2 storage [PCIe X16 Mode]: Switch PCIe to x16. [PCIe RAID Mode]: Up to 4 SSDs installed onto the Hyper M.2 X16 series card can be detected. [GPU with M.2 storage]: PCIe16(G5)_1 slot will support a graphics card running at x8 and a NVMe M.2 SSD running at x4. +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save & Exit F12: Print Screen <k>: Scroll help area upwards <m>: Scroll help area downwards ESC: Exit

	ASROCK WRX90 WS EVO	Advanced Configuration → Chipset Configuration → PCIe Slot7 Configuration	 The screenshot shows the ASRock BIOS interface. The 'Advanced' tab is selected, and the 'Chipset Configuration' menu is open. A sub-menu for 'PCIe Slot7 Configuration' is displayed, showing three options: 'x16 Mode' (selected), 'x8x8 Mode', and 'x4x4x4x4 Mode'. The 'x16 Mode' option is highlighted with a blue bar. The background of the BIOS screen shows various other settings like 'Onboard VGA', 'Onboard X710 LAN Controller', and 'Onboard Button LED'.
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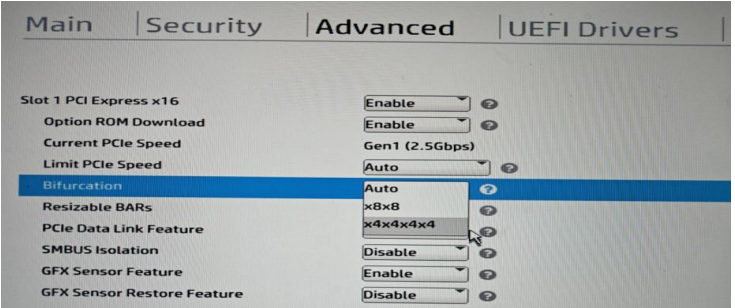
2. Supermicro

Classification	Motherboard	BIOS Setup Path	Support for Motherboard Bifurcation Mode
Server	Supermicro X12DPi-N6	Advanced → Chipset Configuration → North Bridge → IIO Configuration → CPU1 Configuration → IOU0(IIO PCIe Port 1)	

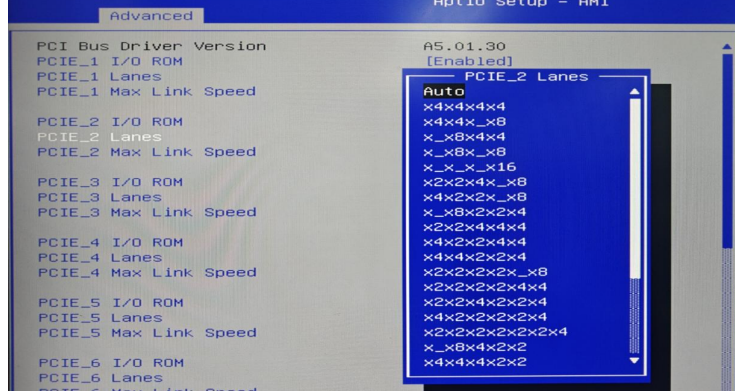
	Supermicro X13SEI-TF	Advanced → Chipset Configuration → North Bridge → IIO Configuration → CPU1 Configuration → IOU0(IIO PCIe Port 1)	
	Supermicro H12SSL-i	Advanced → PCIe/PCI/PnP Configuration → CPU SLOT1 PCI-E 4.0 X16 Bifurcation	

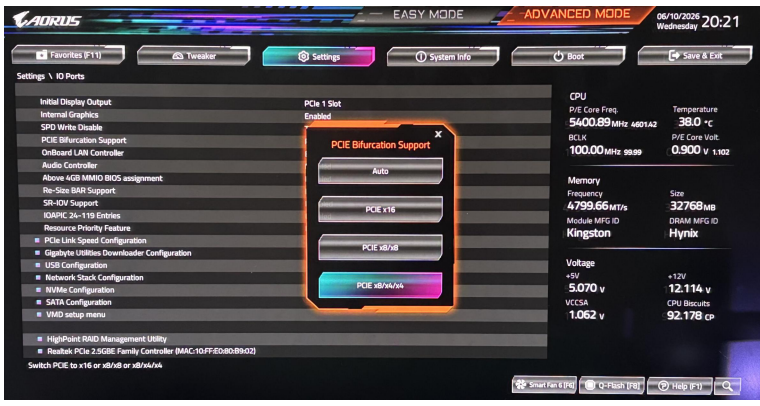
3. HP

Classification	Motherboard	BIOS Setup Path	Support for Motherboard Bifurcation Mode
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WorkStation	HP Z6 G5 A	Advanced → Slot Setting → slot1 PCI Express x16 → Bifurcation	 The screenshot shows the HP BIOS 'Advanced' tab. Under 'Slot 1 PCI Express x16', the 'Bifurcation' setting is highlighted and set to 'Auto'. Other settings like 'Option ROM Download', 'Current PCIe Speed', 'Limit PCIe Speed', 'Resizable BARs', 'PCIe Data Link Feature', 'SMBUS Isolation', 'GFX Sensor Feature', and 'GFX Sensor Restore Feature' are also visible.
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4. GIGABYTE

Classification	Motherboard	BIOS Setup Path	Support for Motherboard Bifurcation Mode
Server	GIGABYTE MS03-6L0	Advanced → PCI Subsystem Settings → PCIe_x Lanes	 The screenshot shows the GIGABYTE BIOS 'Advanced' tab. A list of PCIe lanes (PCIe_1 to PCIe_6) is shown on the left. On the right, a dropdown menu for 'PCIe_2 Lanes' is open, showing various configurations including 'Auto', 'x4x4x4x4', 'x4x4x8', 'x8x4x4', 'x8x8', 'x8x16', 'x2x2x4x8', 'x4x2x2x8', 'x8x2x2x4', 'x2x2x4x4x4', 'x4x4x2x2x4', 'x2x2x2x2x8', 'x2x2x2x2x4x4', 'x2x2x4x2x2x4', 'x4x2x2x2x2x4', 'x2x2x2x2x2x2x4', 'x8x4x2x2', and 'x4x4x4x2x2'.

Desktop	GIGABYTE Z890M AORUS ELITE WIFI7	Settings → IO Ports → PCIE Bifurcation Support	
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5. DELL

Classification	Motherboard	BIOS Setup Path	Support for Motherboard Bifurcation Mode
WorkStation	Dell Precision 7960 Tower Workstation	BIOS Setup → Integrated Devices → PCIe Bifurcation → Auto	