

Compatibility Report for:

- *Adaptec HBA 1200*
- *Adaptec SmartHBA 2200*
- *Adaptec SmartRAID 3200*

This Compatibility Report reflects testing performed by Microchip to test the interoperability of the products listed. It does not attempt to validate the quality of or preference for any of the listed products. It is also not an inclusive list and reflects a representative sample of products in each of the categories listed. All testing was done by the Microchip Product Verification Group and the Interoperability Test Lab.

Minimum testing for listed drive enclosures consists of recognition on each controller model and 24 hours of data integrity I/O stress load. For enclosures that have a FW Revision associated with them, indicating an intelligent backplane, Activity and Fault LEDs on the enclosure are also tested.

Minimum testing for listed hard disk drives (HDDs) and solid state drives (SSDs) includes direct-attached recognition on each controller model subjected to data integrity I/O stress load. When selecting a hard drive or SSD, be aware that other factors not taken into account during this testing may impact successful operation. Just a few examples of such are, the use of an enclosure/backplane, not following the drive vendor's usage guidelines, or not providing adequate environmental support. Our compatibility reports are intended to be used as a guideline for compatibility, but it's important to factor in all requirements for your particular configuration prior to selecting a hard drive to fit your needs.

Minimum testing for listed host systems and motherboards consists of single and multiple controller recognition, controller BIOS interaction with host, and operating system bootability from each controller from every compatible PCIExpress slot. Systems that are capable of supporting more than 4 GB and more than 8 GB of memory are also tested in operating system environments that support such a configuration. Please note that some systems or motherboards may be listed multiple times if different system BIOS or CPU configurations were used.

Note:

If you encounter problems with a certain system or device, check the manufacturer for the latest BIOS or microcode.
Go to the Adaptec web site frequently for the latest updated list at www.microsemi.com/products/storage/compatibility

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* Microchip is committed to providing customers with a stable product that offers both, high performance and high reliability. Enterprise class hard drives and SSDs should always be used on an enterprise class system. Desktop or consumer class drives should not be used due to faster wear-out, I/O timeout incompatibilities, lower tolerances for vibration, and a lack of end-to-end data error detection and correction.

Hard drive and SSD manufacturers develop drives to meet specific customer requirements for reliability, capacity, and performance. Using drives outside of their intended application can negatively impact server productivity and data reliability. Please contact the drive manufacturer regarding usage guidelines.

Drives highlighted in green are tested at Microchip. Additional models from the same hard disk series are listed as a convenience and should be fully compatible by family association. (There could be additional family members not listed.)

NVMe SOLID STATE DRIVES (SSDs)

Manufacturer	PCIe Interface	Family	Category *	Model	FW Revision (or later)	Capacity	Interface Type	SED*
Inspur	PCIe 3.x NVMe	NS6510 Series	Enterprise	NS6510G1U384	96	3.84 TB	4x 8.0 GT/s	
				NS6510G1U192	96	1.92 TB	4x 8.0 GT/s	
Inspur	PCIe 3.x NVMe	NS8500 Series	Enterprise	NS8500G1U192	91	1.92 TB	4x 8.0 GT/s	
				NS8500G1U768		7.68 TB	4x 8.0 GT/s	
				NS8500G1U384		3.84 TB	4x 8.0 GT/s	
Inspur	PCIe 3.x NVMe	NS8600 Series	Enterprise	NS8600G1U320	91	3.2 TB	4x 8.0 GT/s	
				NS8600G1U640		6.4 TB	4x 8.0 GT/s	
				NS8600G1U160		1.6 TB	4x 8.0 GT/s	
Intel	PCIe 3.x NVMe	DC P4610	Datacenter	SSDPE2KE032T80	152	3.2TB	4x 8.0 GT/s	
				SSDPE2KE076T80		7.6 TB	4x 8.0 GT/s	
				SSDPE2KE064T80		6.4 TB	4x 8.0 GT/s	
				SSDPE2KE016T80		1.6 TB	4x 8.0 GT/s	
Intel	PCIe 3.x NVMe	OPTANE P4800X	Datacenter	INTEL SSD PE21K750GA01	485	750 GB	4x 8.0 GT/s	
				INTEL SSD PE21K015TA01		1.5 TB	4x 8.0 GT/s	
				INTEL SSD PE21K375GA01		375 GB	4x 8.0 GT/s	
Intel	PCIe 3.x NVMe	OPTANE P4801X	Datacenter	INTEL SSD PE2KX010T8	170	1.0 TB	4x 8.0 GT/s	
Intel	PCIe 3.x NVMe	P4510 Series	Datacenter	INTEL SSD PE21K100GA01	485	100 GB	4x 8.0 GT/s	
				INTEL SSD PE2KX040T8		4.0 TB	4x 8.0 GT/s	
				INTEL SSD PE2KX020T8		2.0 TB	4x 8.0 GT/s	

				model required		500 GB	4x 8.0 GT/s	
Intel	PCIe 4.x NVMe	OPTANE P5800X Series	Datacenter	INTEL SSDPF21G800GB	L0310100	800 GB	4x 16.0 GT/s	
				INTEL SSDPF21Q016TB		1.6 TB	4x 16.0 GT/s	
				INTEL SSDPF21Q400GB		400 GB	4x 16.0 GT/s	
Kingston	PCIe 3.x NVMe	DC1500M	Date Center Series	Kingston SEDC1500M/1920G	103	1.92TB	4x 8.0 GT/s	
				Kingston SEDC1500M/7680G		7.68 TB	4x 8.0 GT/s	
				Kingston SEDC1500M/3840G		3.84 TB	4x 8.0 GT/s	
				Kingston SEDC1500M/960G		960 GB	4x 8.0 GT/s	
Kingston	PCIe 3.x NVMe	DM1000M Series	Datacenter	Kingston SEDC1000M/960G	115	1.0 TB	4x 8.0 GT/s	
				Kingston SEDC1000M/7680G		7.68 TB	4x 8.0 GT/s	
				Kingston SEDC1000M/3840G		3.84 TB	4x 8.0 GT/s	
				Kingston SEDC1000M/1920G		1.92 TB	4x 8.0 GT/s	
Kioxia	PCIe 3.x NVMe	CD5 Series	Datacenter	KIOXIA KCD51LUG1T92 - PN SDFPF05GEA01	108	1.92 TB	4x 8.0 GT/s	
				KIOXIA KCD51LUG7T68		7.68 TB	4x 8.0 GT/s	
				KIOXIA KCD51LUG3T84		3.84 TB	4x 8.0 GT/s	
				KIOXIA KCD51LUG960G		960 GB	4x 8.0 GT/s	
Kioxia	PCIe 3.x NVMe	CM5 Series	Enterprise	KIOXIA KCM51RUG3T84 - PN SDFME04GEA01	107	3.84 TB	4x 8.0 GT/s	
				KIOXIA KCM51RUG15T3		15.33 TB	4x 8.0 GT/s	
				KIOXIA KCM51RUG7T68		7.68 TB	4x 8.0 GT/s	
				KIOXIA KCM51RUG1T92		1.92 TB	4x 8.0 GT/s	
				KIOXIA KCM51RUG960G		960 GB	4x 8.0 GT/s	
Kioxia	PCIe 4.x NVMe	CD6-V Series	Datacenter	KIOXIA KCD61VUL6T40 - PN SDFS03GEA02T	102	6.4 TB	4x 16.0 GT/s	
				KIOXIA KCD61VUL12T8		12.8 TB	4x 16.0 GT/s	
				KIOXIA KCD61VUL3T20		3.2 TB	4x 16.0 GT/s	
				KIOXIA KCD61VUL1T60		1.6 TB	4x 16.0 GT/s	
				KIOXIA KCD61VUL800G		800 GB	4x 16.0 GT/s	
Kioxia	PCIe 4.x NVMe	CM6-V Series	Enterprise	KIOXIA KCM61VUL3T20 - PN SDFHQ04GEA02T	102	3.2 TB	4x 16.0 GT/s	
				KIOXIA KCM61VUL12T8		12.8 TB	4x 16.0 GT/s	
				KIOXIA KCM6XVUL12T8		12.8 TB	4x 16.0 GT/s	
				KIOXIA KCM61VUL6T40		6.4 TB	4x 16.0 GT/s	
				KIOXIA KCM6XVUL6T40		6.4 TB	4x 16.0 GT/s	
				KIOXIA KCM6XVUL3T20		3.2 TB	4x 16.0 GT/s	
				KIOXIA KCM61VUL1T60		1.6 TB	4x 16.0 GT/s	
				KIOXIA KCM6XVUL1T60		1.6 TB	4x 16.0 GT/s	
				KIOXIA KCM61VUL800G		800 GB	4x 16.0 GT/s	
				KIOXIA KCM6XVUL800G		800 GB	4x 16.0 GT/s	
Kioxia	PCIe 3.x NVMe	XD5 Series	Datacenter	KIOXIA KXD51RUE1T92	1CEE61111	1.92 TB	4x 8.0 GT/s	
				KIOXIA KXD51RUE3T84		3.84 TB	4x 8.0 GT/s	
				KIOXIA KXD51RUE960G		960 GB	4x 8.0 GT/s	
Samsung	PCIe 4.x NVMe	PM9A3 Series	Enterprise	MZ-QL27T60 - PN MZQL27T6HBLA-00A07	GDC5202Q	7.68 TB	4x 16.0 GT/s	
				MZQL23T8HCJS-00A07		3.84 TB	4x 16.0 GT/s	
				MZQL21T9HCJR-00A07		1.92 TB	4x 16.0 GT/s	
				MZ-QL2960HCJR-00A07		960 GB	4x 16.0 GT/s	
WDC	PCIe 3.x NVMe	DC SN840 Series	Datacenter	WDC WUS4C6416DSP3X1 - PN 0TS1874	R2209200	1.6 TB	4x 8.0 GT/s	
				WDC WUS4C6464DSP3X1 - PN 0TS1878		6.4 TB	4x 8.0 GT/s	
				WDC WUS4C6432DSP3X1 - PN 0TS1876		3.2 TB	4x 8.0 GT/s	

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