

Qualification Vender List

AMD CPU										
Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores / Threads	Processor Base Freq (GHz)	Processor Boost Max Freq (GHz)	Default TDP	cTDP Min / cTDP Max	Memory Types

Castle Peak - AMD Ryzen Threadripper Family

AMD Ryzen™ Threadripper™ 3990X	Castle Peak	sTRX4	-	256MB	64 / 128	2.9GHz	4.3GHz	280W	280W	DDR4-3200
AMD Ryzen™ Threadripper™ 3970X	Castle Peak	sTRX4	-	128MB	32 / 64	3.7GHz	4.5GHz	280W	280W	DDR4-3200
AMD Ryzen™ Threadripper™ 3960X	Castle Peak	sTRX4	-	128MB	24 / 48	3.8GHz	4.5GHz	280W	280W	DDR4-3200

Memory (Memory actually maximum frequency will follow memory controller's spec of CPU you used)

Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins
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ECC UDIMM

78.B1GM4.AF00B	DDR4	Apacer	4GB		1Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M391A2K43BB1-CPB	DDR4	Samsung	16GB		2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M391A1G43DB0-CPB	DDR4	Samsung	8GB		2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
TS512MLH72V1H	DDR4	Transcend	4GB		1Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
TS1GLH72V1H	DDR4	Transcend	8GB		2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M4C0-4GSSLCRG	DDR4	innodisk	4GB		1Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M4C0-8GSSMCRG	DDR4	innodisk	8GB		2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin
CT8G4WFD824A.18FB1	DDR4	Crucial	8GB		2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
HMA81GU7AFR8N-UH TO AA 1643	DDR4	SKhynix	8GB		2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
HMA82GU7AFR8N-UH TO AC	DDR4	SKhynix	16GB		2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
M4C0-AGS1MCSJ	DDR4	innodisk	16GB		2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
78.C1GSC.4050B	DDR4	Apacer	8GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
KSM2E58/8ME	DDR4	Kingston	8GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
HMA81GU7CJR8N-VK TO AC 1820	DDR4	SKhynix	8GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
KSM2E58/16ME	DDR4	Kingston	16GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
KSM2ED8/16ME	DDR4	Kingston	16GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
78.D1GSC.4010B	DDR4	Apacer	16GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
HMA82GU7CJR8N-VK TO AC 1801	DDR4	SKhynix	16GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
KSM32E58/8ME	DDR4	Kingston	8GB		2Rx8	1.2v	3200MHz	ECC Unbuffer	22	288-pin
KSM32ED8/16ME	DDR4	Kingston	16GB		2Rx8	1.2v	3200MHz	ECC Unbuffer	22	288-pin
M4C0-AGS1MCEM-D33	DDR4	innodisk	16GB		2Rx8	1.2v	2666MHz	ECC Unbuffer	22	288-pin
D32.27261S.001	DDR4	Apacer	16GB		2Rx8	1.2v	3200MHz	ECC Unbuffer	22	288-pin
M4C0-8GS2MCEM-D33	DDR4	innodisk	32GB		2Rx8	1.2v	3200MHz	ECC Unbuffer	22	288-pin

UDIMM

CT4G4DFS8213.8FA1 4GB	DDR4	CRUCIAL	4GB		1Rx8	1.2v	2133MHz		15	288-pin
75.B93G2.G000B 4GB UNB	DDR4	Apacer	4GB		1Rx8	1.2v	2133MHz		15	288-pin
TS512MLH64V1H	DDR4	Transcend	4GB		1Rx8	1.2v	2133MHz		15	288-pin
AD4U2133W4G15-BHYM	DDR4	ADATA	4GB		1Rx8	1.2v	2133MHz		15	288-pin
KVR21N15D8/8	DDR4	Kingston	8GB		2Rx8	1.2v	2133MHz		15	288-pin
TS1GLH64V1H	DDR4	Transcend	8GB		2Rx8	1.2v	2133MHz		15	288-pin
78.C1GM3.AF10B 8GB UNB	DDR4	Apacer	8GB		2Rx8	1.2v	2133MHz		15	288-pin
84G44G93MC-210MCAFG15T	DDR4	UMAX	4GB		1Rx8	1.2v	2133MHz		15	288-pin
CT8G4DFD8213.16FA1 8GB	DDR4	CRUCIAL	8GB		2Rx8	1.2v	2133MHz		15	288-pin
84G44G93MC-210MCAFG15T	DDR4	UMAX	8GB		2Rx8	1.2v	2133MHz		15	288-pin
AD4U2133W8G15-BHYM	DDR4	ADATA	8GB		2Rx8	1.2v	2133MHz		15	288-pin
KVR21N15S8/4	DDR4	Kingston	4GB		1Rx8	1.2v	2133MHz		15	288-pin
KVR24N17S8/8	DDR4	Kingston	8GB		1Rx8	1.2v	2400MHz		17	288-pin
KVR24N17D8/16	DDR4	Kingston	16GB		1Rx8	1.2v	2400MHz		17	288-pin
CT8G4DFS8266.8FB1	DDR4	Crucial	8GB		2Rx8	1.2v	2666MHz		19	288-pin
KVR26N19S8/8	DDR4	Kingston	8GB		2Rx8	1.2v	2666MHz		19	288-pin
KVR26N19D8/16	DDR4	Kingston	16GB		2Rx8	1.2v	2666MHz		19	288-pin
CT16G4DFD8266.16FH1	DDR4	Crucial	16GB		2Rx8	1.2v	2666MHz		19	288-pin
CT32G4DFD8266.16FB1	DDR4	Crucial	32GB		2Rx8	1.2v	2666MHz		19	288-pin
M4U0-BGS2KCIK-D33	DDR4	innodisk	32GB		2Rx8	1.2v	2666MHz		19	288-pin
HMA81GU6DJR8N-XN NO AC	DDR4	SKhynix	8GB		2Rx8	1.2v	3200MHz		22	288-pin
CT8G4DFS832A.C8FJ	DDR4	Crucial	8GB		2Rx8	1.2v	3200MHz		22	288-pin
CT16G4DFD832A.M16FJ	DDR4	Crucial	16GB		2Rx8	1.2v	3200MHz		22	288-pin
HMA82GU6DJR8N-XN	DDR4	SKhynix	16GB		2Rx8	1.2v	3200MHz		22	288-pin
M4U0-AGS1KCEM-D33	DDR4	innodisk	16GB		2Rx8	1.2v	3200MHz		22	288-pin
M4U0-BGS2KCEM-D33	DDR4	innodisk	32GB		2Rx8	1.2v	3200MHz		22	288-pin
M378A4G43AB2-CWE	DDR4	Samsung	32GB		2Rx8	1.2v	3200MHz		22	288-pin

Seagate HDD

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
Seagate Enterprise Capacity 2.5 HDD										
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A

SATA/SAS SSD

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note
SATA/SAS SSD								
MTFDDAK1T9TDC-1A1ZABYY (5200 ECO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s		
MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	3.84TB	6Gb/s		
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s		
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s		
SSDSC2KB019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s		
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s		
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s		
SRE100-880000210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s		
SRE100-480000210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s		
SED5C500M/3840G DC500M Series	SSD	Kingston	2.5"	SATA	3.84TB	6Gb/s		
SED5C500M/1920G DC500M Series	SSD	Kingston	2.5"	SATA	1.92TB	6Gb/s		
SED5C500M/960G DC500M Series	SSD	Kingston	2.5"	SATA	960GB	6Gb/s		
SED5C500M/480G DC500M Series	SSD	Kingston	2.5"	SATA	480GB	6Gb/s		
KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s		

U.2							
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note
U.2 (VROC support)							
SSDPE2KE032T801 P4610 Series	U.2	Intel	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4	
SSDPE2KX020T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	2TB	Gen3 x4	
SSDPE7KX010T701 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	1TB	Gen3 x4	
U.2							
SSDPE2KE032T801 P4610 Series	U.2	Intel	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4	
SSDPE2KX020T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	2TB	Gen3 x4	
SSDPE7KX010T701 P4501 Series	U.2	Intel	2.5"	SFF8639(NVMe)	1TB	Gen3 x4	
MZWL13T2HAJQ PM1725b Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4	
MZWL13T2HMJP PM1725a Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4	
MZQLW1T9HMUP PM963 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4	
MZQLB1T9N 983 DCT Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4	
MZWL13T8H8LS PM1733 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.84TB	Gen4 x4	
MTFDHAL3T2TCU 9200 Series	U.2	Micron	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4	
MTFDHBE3T8TDF 7300 Pro Series	U.2	Micron	2.5"	SFF8639(NVMe)	3.84TB	Gen3 x4	MTFDHBE3T8TDF-1AW4ZABYY
MTFDHBE960TDF 7300 Pro Series	U.2	Micron	2.5"	SFF8639(NVMe)	960GB	Gen3 x4	MTFDHBE960TDF-1AW4ZABYY
NS1951UF13T8 Nelist N1951 D2 Series	U.2	Nelist	2.5"	SFF8639(NVMe)	3.84TB	Gen3 x4	
NS1551U711T9 Nelist N1551 D2 Series	U.2	Nelist	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4	
KCD51LUG960G CD5 Series	U.2	Toshiba	2.5"	SFF8639(NVMe)	960GB	Gen3 x4	
PSS012-E12	U.2	PHISON	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4	
WUS4CB016D7P3E3 Ultrastar DC SN640 Series	U.2	WD	2.5"	SFF8639(NVMe)	1.6TB	Gen3 x4	
WUS4BB096D7P3E3 Ultrastar DC SN640 Series	U.2	WD	2.5"	SFF8639(NVMe)	960GB	Gen3 x4	
WUS4CB080D7P3E3 Ultrastar DC SN640 Series	U.2	WD	2.5"	SFF8639(NVMe)	800GB	Gen3 x4	
WUS4BB019D7P3E3 Ultrastar DC SN640 Series	U.2	WD	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4	
M.2							
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note
M.2							
SSDPELXX010T801 P4511 Series 1TB	M.2	Intel	22110	PCIe(NVMe)	1TB	-	
SSDPEKKA256G801 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	-	
SSDPEKKA256G701 P3100 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	-	
SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB	-	
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB	-	
MZ-1LB960N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	960GB	-	
MZ-1LB119N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	1.92TB	-	
AF960GSTJA-YT1 ATP 960GB	M.2	ATP	2280	PCIe(NVMe)	960GB	-	
EPX-KW960 EPX Series	M.2	LITE-ON	22110	PCIe(NVMe)	960GB	-	
MTFDHBA800TDC 800GB 7300 Max Series	M.2	Micron	2280	PCIe(NVMe)	800GB	-	
MTFDHBA960TDF 960GB 7300 Pro Series	M.2	Micron	2280	PCIe(NVMe)	960GB	-	
IM2P33F8-256GD	M.2	ADATA	2280	PCIe(NVMe)	256GB	-	
IM2P33F8-512GD	M.2	ADATA	2280	PCIe(NVMe)	512GB	-	

M.2 Expansion PCIe Card								
Product Name	Type	Vendor	Form Factor	Interface	Max. Channels	Interface Speed	Note	
CMT2014	PCIe	Gigabyte	22110	PCIe(NVMe)	4	Gen3 x 16bus	-	
CMT4032	PCIe	Gigabyte	22110	PCIe(NVMe)	2	Gen3 x 8bus	-	
CMT4034	PCIe	Gigabyte	22110	PCIe(NVMe)	4	Gen3 x 16bus	-	
GPU Card								
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	VRAM	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note
NVIDIA Tesla V100 Super	5,120	1134 GB/sec	32GB			250 W		
Graphics Card								
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	VRAM	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note
NVIDIA								
NVIDIA QUADRO RTX 4000	2304	416GB/s	8GB			160 W		
NVIDIA QUADRO RTX 5000	3072	448GB/s	16GB			265 W		
NVIDIA QUADRO RTX 6000	4608	672GB/s	24GB			295 W		

NVIDIA RTX™ A5000	8,192	768 GB/s	24GB			230 W				
NVIDIA RTX™ A6000	10752	768 GB/s	48GB			300 W				
NVIDIA GEFORCE RTX 3090	10496	384GB/s	24GB			350 W				
NVIDIA ZOTAC GAMING GEFORCE RTX 3070	5888	256GB/s	8GB			220 W				
AMD										
AMD Radeon™ RX 5600 XT	2304	336B/s	6GB			150 W				