



Qualification Vendor List											
Memory											
Product Name	Vendor	Memory Type	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	Pins	Note	
UDIMM											
Don't write "Test Items" under this line!!!											
AD4U2133W4G15-BHYM	ADATA	DDR4	4GB		1Rx8	1.2v	PC4-17000(2133MHz)	NonECC	288-pin		
78_C1GSC.4050B	Apacer	DDR4	8GB		1Rx8	1.2v	PC4-21300(2666MHz)	ECC	288-pin		
78_D1GSC.4010B	Apacer	DDR4	16GB		2Rx8	1.2v	PC4-21300(2666MHz)	ECC	288-pin		
CT8G4DFS8266.8FB1	CRUCIAL	DDR4	8GB		1Rx8	1.2v	PC4-21300(2666MHz)	NonECC	288-pin		
CT16G4DFD8266.16FH1	CRUCIAL	DDR4	16GB		2Rx8	1.2v	PC4-21300(2666MHz)	NonECC	288-pin		
CT32G4DFD8266.16FB1	CRUCIAL	DDR4	32GB		2Rx8	1.2v	PC4-21300(2666MHz)	NonECC	288-pin		
KSM26ES8/8ME	Kingston	DDR4	8GB		1Rx8	1.2V	PC4-21300(2666MHz)	ECC	288-pin		
KVR26N19S8/8	Kingston	DDR4	8GB		1Rx8	1.2V	PC4-21300(2666MHz)	NonECC	288-pin		
KVR26N19D8/16	Kingston	DDR4	16GB		2Rx8	1.2V	PC4-21300(2666MHz)	NonECC	288-pin		
KSM26ES8/16ME	Kingston	DDR4	16GB		2Rx8	1.2V	PC4-21300(2666MHz)	ECC	288-pin		
HMA81GU7CJR8N-VK T0 AC 1820	Skhynix	DDR4	8GB		1Rx8	1.2v	PC4-21300(2666MHz)	ECC	288-pin		
HMA82GU7CJR8N-VK T0 AC 1801	Skhynix	DDR4	16GB		2Rx8	1.2v	PC4-21300(2666MHz)	ECC	288-pin		
D32_27261S_001	Apacer	DDR4	16GB			1.2V	PC4-25600(3200MHz)	ECC	288-pin		
CT8G4DFS832A.C8FJ	CRUCIAL	DDR4	8GB		1Rx8	1.2V	PC4-25600(3200MHz)	NonECC	288-pin		
CT16G4DFD832A.M16FJ	CRUCIAL	DDR4	16GB		2Rx8	1.2V	PC4-25600(3200MHz)	NonECC	288-pin		
M4C0-8GM1LCEM-D33	Innodisk	DDR4	8GB		1Rx8	1.2V	PC4-25600(3200MHz)	ECC	288-pin		
M4C0-8GM2MCEM-D33	Innodisk	DDR4	32GB		2Rx8	1.2V	PC4-25600(3200MHz)	ECC	288-pin		
KSM32ES8/8ME	Kingston	DDR4	8GB		1Rx8	1.2V	PC4-25600(3200MHz)	ECC	288-pin		
KSM32ED8/16ME	Kingston	DDR4	16GB		2Rx8	1.2V	PC4-25600(3200MHz)	ECC	288-pin		
M378A4G43AB2-CWE	SAMSUNG	DDR4	32GB		2Rx8	1.2V	PC4-25600(3200MHz)	NonECC	288-pin		
HMA81GU6DJR8N-XN	SKhynix	DDR4	8GB		1Rx8	1.2V	PC4-25600(3200MHz)	NonECC	288-pin		
HMA82GU6DJR8N-XN	SKhynix	DDR4	16GB		2Rx8	1.2V	PC4-25600(3200MHz)	NonECC	288-pin		
Don't write "Test Items" under this line!!!											
RDIMM											
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KSM29RD8/16HDR	Kingston	DDR4	16GB	SKhynix-Rambus	2Rx8	1.2v	2933MHz	ECC Registered	288-pin		
MTA9ASF2G72PZ-2G9E1UI	Micron	DDR4	16GB	Micron-Rambus	1Rx8	1.2v	2933MHz	ECC Registered	288-pin		
MTA18ASF4G72PDZ-2G9E1TI	Micron	DDR4	32GB	Micron-Montage	2Rx8	1.2v	2933MHz	ECC Registered	288-pin		
MTA36ASF8G72PZ-2G9E1VI	Micron	DDR4	64GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	288-pin		
M393A2K43DB2-CVFBQ	Samsung	DDR4	16GB	Samsung-IDT	2Rx8	1.2v	2933MHz	ECC Registered	288-pin		
M393A4K40DB2-CVFBQ	Samsung	DDR4	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC Registered	288-pin		
M393A8G40AB2-CVFBY	Samsung	DDR4	64GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC Registered	288-pin		
KSM32RD8/16MRR	Kingston	DDR4	16GB	Micron-Rambus	2Rx8	1.2v	3200MHz	ECC Registered	288-pin		
KSM32RD4/32MRR	Kingston	DDR4	32GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
KSM32RS4/32MER	Kingston	DDR4	32GB	Micron-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	288-pin		
MTA9ASF1G72PZ-3G2R1VI	Micron	DDR4	8GB	Micron-IDT	1Rx8	1.2v	3200MHz	ECC Registered	288-pin		
MTA18ASF2G72PZ-3G2R1TI	Micron	DDR4	16GB	Micron-Montage	1Rx4	1.2v	3200MHz	ECC Registered	288-pin		
MTA9ASF2G72PZ-3G2F1UI	Micron	DDR4	16GB	Micron-Rambus	1Rx8	1.2v	3200MHz	ECC Registered	288-pin		
MTA18ASF4G72PZ-3G2F1UI	Micron	DDR4	32GB	Micron-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	288-pin		
MTA36ASF4G72PZ-3G2R1UI	Micron	DDR4	32GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
MTA18ASF4G72PDZ-3G2F1UI	Micron	DDR4	32GB	Micron-Rambus	2Rx8	1.2v	3200MHz	ECC Registered	288-pin		
MTA36ASF8G72PZ-3G2E1VI	Micron	DDR4	64GB	Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
M393A2K43EB3-CWEBQ	Samsung	DDR4	16GB	Samsung-IDT	2Rx8	1.2v	3200MHz	ECC Registered	288-pin		
M393A4K40EB3-CWECQ	Samsung	DDR4	32GB	Samsung-Montage	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
M393A4K40EB3-CWEGQ	Samsung	DDR4	32GB	Samsung-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
M393A4G40BB3-CWEGQ	Samsung	DDR4	32GB	Samsung-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	288-pin		
M393A4K40DB3-CWECQ	Samsung	DDR4	32GB	Samsung-Montage	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
M393A8G40BB4-CWEBQ	Samsung	DDR4	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
HMA82GR7DJR8N-XN TG	SKhynix	DDR4	16GB	SKhynix-IDT	2Rx8	1.2v	3200MHz	ECC Registered	288-pin		
HMAA8GR7CJR4N-XN T4	SKhynix	DDR4	64GB	SKhynix-Montage	2Rx4	1.2v	3200MHz	ECC Registered	288-pin		
Don't write "Test Items" under this line!!!											
SATA/SAS HDD											
Product Name	Vendor	Type	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encription	FW
SATA											
Don't write "Test Items" under this line!!!											
ST1000NX0313	Seagate	SATA	2.5"	512e	1TB	6Gb/s	Exos 7E2000	128MB	7200	N/A	



ST2000NX0243	Seagate	SATA	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000	128MB	7200	N/A	
ST2000NX0253	Seagate	SATA	2.5"	512e	2TB	6Gb/s	Exos 7E2000	128MB	7200	N/A	
ST10000NM0016	Seagate	SATA	3.5"	512e	10TB	6Gb/s	Exos X10	256MB	7200	N/A	
ST14000NM0018	Seagate	SATA	3.5"	512e/4kn	14TB	6Gb/s	Exos X14	256MB	7200	N/A	
ST16000NM001G	Seagate	SATA	3.5"	512e/4Kn	16TB	6Gb/s	Exos X16	256MB	7200	N/A	
ST18000NM000J	Seagate	SATA	3.5"	512e/4Kn	18TB	6Gb/s	Exos X18	256MB	7200	N/A	
ST20000NM007D	Seagate	SATA	3.5"	512e/4Kn	20TB	6Gb/s	Exos X20	256MB	7200	N/A	
MG08ADA800E	Toshiba	SATA	3.5"	512e	8TB	6Gb/s	MG08-D	256MB	7200	N/A	
HUS722T2TALA604	WD	SATA	3.5"	512n	2TB	6Gb/s	Ultrastar DC HA210	128MB	7200	N/A	
HUS726T6TAL6L4	WD	SATA	3.5"	512e	6TB	6Gb/s	Ultrastar DC HC310	256MB	7200	N/A	
WUH722020BLE6L4	WD	SATA	3.5"	512e	20TB	6Gb/s	Ultrastar DC HC560	512MB	7200	N/A	

Don't write "Test Items" under this line!!!

SATA/SAS SSD

Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note				
SATA											
Don't write "Test Items" under this line!!!											
SSB1K9GTLCW-D2-SME1720GBT ESM1720 Series	Phison	SSD	2.5"	SATA	1.92TB	6Gb/s					
MZ7L33T8HBLT-00A07 PM893 Series	Samsung	SSD	2.5"	SATA	3.84TB	6Gb/s					
ST2000NX0253	Seagate	SSD	2.5"	512E	2TB	6Gb/s	"Exos 7E2000 (Enterprise Capacity V.3)"				
HUS722T2TALA604 / 1W10002	WD	SSD	3.5"	512n	2TB	6Gb/s	Ultrastar DC HA210 (7K2)				
HUS726T6TAL6L4 / 0B36039	HGST / WD	SSD	3.5"	512e	6TB	6Gb/s	Ultrastar DC HC310 (7K6)				
WUH722020BLE6L4 / 0F38785	WD	SSD	3.5"	512E	20TB	6Gb/s	Ultrastar DC HC560				
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	Micron	SSD	2.5"	SATA	1.92TB	6Gb/s					
MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO)	Micron	SSD	2.5"	SATA	3.84TB	6Gb/s					
MZ7L3480HCHQ-00A07 PM893 Series	Samsung	SSD	2.5"	SATA	480GB	SATAIII 6Gb/s					

Don't write "Test Items" under this line!!!

M.2

Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note				
M.2											
Don't write "Test Items" under this line!!!											
MTFDKBA800TFS	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4	7450 Max Series				
MTFDKBA800TFS 800GB Max Series	Micron	M.2	2280MHz	PCIe(NVMe)	800 GB	PCIe Gen4 x4					
MTFDKBA800TFC 800GB 7400 Max Series	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4					
MTFDKBA800TFC	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4	7400 Max Series				
CA6-8D1024	SSSTC	M.2	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4	CA6 Series				
CA6-8D1024 CA6 Series	SSSTC	M.2	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4					

Don't write "Test Items" under this line!!!

PCIe SSD

Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note				
PCIe											
Don't write "Test Items" under this line!!!											
Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	Samsung	PCIe	PCI-E 3.0	PCIe(NVMe)	3.2TB	PCIe Gen3 x8					
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	Intel	PCIe	PCI-E 3.0	PCIe(NVMe)	4TB	PCIe Gen3 x4					

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Storage Card

Product Name	Vendor	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	Extrenal Ports	External Connectors	Data Transfer Rate	Note	
Broadcom										
Don't write "Test Items" under this line!!!										
Don't write "Test Items" under this line!!!										
LSI										
Don't write "Test Items" under this line!!!										
LSI SAS 9500-16i with Tri-mode	SAS3816	LSI	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port		
LSI SAS 9500-16i without Tri-mode	SAS3816	LSI	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port		
LSI SAS 9500-8e without Tri-mode	SAS3808	LSI	PCIe Gen4 x8	-	-	8	2 SFF-8644	Up to 12Gb/s per port		
MegaRAID 9560-16i with Tri-mode	SAS3916 Tri-Mode RAID-on-Chip (ROC)	LSI	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port		
MegaRAID 9560-16i without Tri-mode	SAS3916 Tri-Mode RAID-on-Chip (ROC)	LSI	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port		

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MegaRAID 9660-16i without Tri-mode	SAS4116 (Avenger ROC)	LSI	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port
Don't write "Test Items" under this line!!!								
LAN Card								
Product Name	Vendor	Connector	System Interface Type	# of Ports	Data Rate	Note		
Broadcom								
Don't write "Test Items" under this line!!!								
BCM957416A4160C	Broadcom	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	BCM57416 (P210TP)		
Don't write "Test Items" under this line!!!								
GIGABYTE								
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CLN4224	GIGABYTE	RJ-45	PCIe Gen3 x8	Quad	10Gb/s per port	INTEL X550-AT2		
CLN4752	GIGABYTE	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port	INTEL XL710-BM2		
CLN4M34	GIGABYTE	SFP28	PCIe Gen3 x16	Quad	10Gb/s per port	Mellanox ConnectX-4		
Don't write "Test Items" under this line!!!								
Intel								
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Intel® Ethernet Converged Network Adapter XL710-QDA2	Intel	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port			
Intel® Ethernet Network Adapter E810-CQDA2	Intel	QSFP28	PCIe Gen4 x16	Dual	100Gb/s per port			
Intel® Ethernet Network Adapter X722-DA4	Intel	SFP+	PCIe Gen3 x8	Quad	10Gb/s per port			
Intel® Ethernet Network Adapter XXV710-DA2	Intel	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port			
Don't write "Test Items" under this line!!!								
NVIDIA								
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MCX4121A-ACAT	NVIDIA	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Mellanox ConnectX-4 Lx EN		
MCX516A-CCAT	NVIDIA	QSFP28	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 EN		
MCX613106A-VDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 EN		
MCX623106AN-CDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	Mellanox ConnectX®-6 Dx No Crypto, No Secure Boot		
MCX631102AN-ADAT	NVIDIA	SFP28	PCIe Gen4 x8	Dual	25Gb/s per port	Mellanox ConnectX®-6 Lx without Crypto		
MCX653105A-ECAT	NVIDIA	QSFP56	PCIe Gen4 x16	Single	100Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)		
MCX653106A-HDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)		
MCX683105AN-HDAT	NVIDIA	QSFP	PCIe Gen4 x16	Single	200Gb/s per port	Mellanox ConnectX-6 DE VPI (InfiniBand)		
Don't write "Test Items" under this line!!!								
PSU								
Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	Note		
PSU								
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SST-ST1000-G	FSPSilverStone	100-240Vac	1000W	Desktop	80Gold			
SS-1250XM	SeaSonic	100-240Vac	1250W	Desktop	80Gold			
FSP1200-50AAG	FSP	100~240Vac	1200W	Desktop	N/A			
FSP850-50AAG	FSP	100~240Vac	850W	Desktop	N/A			
FSP1200-50AAG	100~240Vac	FSP	1200W	Desktop	N/A			
FSP850-50AAG	100~240Vac	FSP	850W	Desktop	N/A			
SS-1250XM	100~240Vac	SeaSonic	1250W	Desktop	80Gold			
SST-ST1000-G	100-240Vac	SilverStone	1000W	Desktop	80Gold			
Don't write "Test Items" under this line!!!								
USB								
Product Name	Vendor	Type	Spec	Capacity	Note			
USB 3.1 Type A								
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S1-DS3-Plus	CyberSLIM	Device	USB 3.1 Type A					
PURE CLASSIC X176B1FWBO75	GIGABYTE	HDD	USB 3.1 Type A	500G				
MB981U3-1S	ICYDOCK	Device	USB 3.1 Type A					
NA317U+	ineo	Device	USB 3.1 Type A					
GoFlex STAA500305	Seagate	HDD	USB 3.1 Type A	500G				
SST-TS13	Silver Stone	Device	USB 3.1 Type A					
i310-SB3(6G)	STARDOM	Device	USB 3.1 Type A					
CANVIO BASIC	Toshiba	HDD	USB 3.1 Type A	500G				
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Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	Samsung	PCIe	PCI-E 3.0	PCIe(NVMe)	3.2TB	PCIe Gen3 x8	
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	Intel	PCIe	PCI-E 3.0	PCIe(NVMe)	4TB	PCIe Gen3 x4	

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