

Qualification Vendor List											
Intel CPU											
Product Name	Vendor	Code Name	Q-Spec	Stepping	Cache	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types	Note
Sapphire Rapids											
Don't write "Test Items" under this line!!!											
Intel® Xeon® Processor Gold 5411N	Intel	Sapphire Rapids	Q27X	S-3	45	24	1.9	3.9	165	4400	
Intel® Xeon® Processor Gold 5412U	Intel	Sapphire Rapids	Q27H	S-3	45	24	2.1	3.9	185	4400	
Intel® Xeon® Processor Gold 5415+	Intel	Sapphire Rapids	Q27C	S-3	22.5	8	2.9	4.1	150	4400	
Intel® Xeon® Processor Gold 5416S	Intel	Sapphire Rapids	Q281	S-3	30	16	2	4	150	4400	
Intel® Xeon® Processor Gold 5418N	Intel	Sapphire Rapids	Q27W	S-3	45	24	1.8	3.8	165	4000	
Intel® Xeon® Processor Gold 5418Y	Intel	Sapphire Rapids	Q27G	S-3	45	24	2	3.8	185	4400	
Intel® Xeon® Processor Gold 5420+	Intel	Sapphire Rapids	Q27K	S-3	52.5	28	2	4.1	205	4400	
Intel® Xeon® Processor Gold 6414U	Intel	Sapphire Rapids	Q234	E-5	60	32	2	3.4	250	4800	
Intel® Xeon® Processor Gold 6416H	Intel	Sapphire Rapids	Q27Q	S-3	45	18	2.2	4.2	165	4800	
Intel® Xeon® Processor Gold 6418H	Intel	Sapphire Rapids	Q27R	S-3	60	24	2.1	4	185	4800	
Intel® Xeon® Processor Gold 6421N	Intel	Sapphire Rapids	Q27Z	S-3	60	32	1.8	3.6	185	4800	
Intel® Xeon® Processor Gold 6425Y	Intel	Sapphire Rapids	Q27E	S-3	37.5	16	2.5	4.1	185	4800	
Intel® Xeon® Processor Gold 6428N	Intel	Sapphire Rapids	Q27Y	S-3	60	32	1.8	3.8	185	4800	
Intel® Xeon® Processor Gold 6430	Intel	Sapphire Rapids	Q23B	E-5	60	32	2.1	3.4	270	4400	
Intel® Xeon® Processor Gold 6434	Intel	Sapphire Rapids	Q273	S-3	22.5	8	3.7	4.1	195	4800	
Intel® Xeon® Processor Gold 6434H	Intel	Sapphire Rapids	Q27P	S-3	22.5	8	3.7	4.1	195	4800	
Intel® Xeon® Processor Gold 6438M	Intel	Sapphire Rapids	Q282	S-3	60	32	2.2	3.9	205	4800	
Intel® Xeon® Processor Gold 6438N	Intel	Sapphire Rapids	Q280	S-3	60	32	2	3.6	205	4800	
Intel® Xeon® Processor Gold 6438Y+	Intel	Sapphire Rapids	Q27L	S-3	60	32	2	4	205	4800	
Intel® Xeon® Processor Gold 6442Y	Intel	Sapphire Rapids	Q27J	S-3	60	24	2.6	4	225	4800	
Intel® Xeon® Processor Gold 6444Y	Intel	Sapphire Rapids	Q27T	S-3	45	16	3.6	4.1	270	4800	
Intel® Xeon® Processor Gold 6448H	Intel	Sapphire Rapids	Q27S	S-3	60	32	2.4	4.1	250	4800	
Intel® Xeon® Processor Gold 6448Y	Intel	Sapphire Rapids	Q27M	S-3	60	32	2.1	4.1	225	4800	
Intel® Xeon® Processor Gold 6454S	Intel	Sapphire Rapids	Q23C	E-5	60	32	2.2	3.4	270	4800	
Intel® Xeon® Processor Platinum 8444H	Intel	Sapphire Rapids	Q23W	E-5	45	16	2.9	4	270	4800	
Intel® Xeon® Processor Platinum 8450H	Intel	Sapphire Rapids	Q244	E-5	75	28	2	3.5	250	4800	
Intel® Xeon® Processor Platinum 8452Y	Intel	Sapphire Rapids	Q246	E-5	67.5	36	2	3.2	300	4800	
Intel® Xeon® Processor Platinum 8454H	Intel	Sapphire Rapids	Q23R	E-5	82.5	32	2.1	3.4	270	4800	
Intel® Xeon® Processor Platinum 8458P	Intel	Sapphire Rapids	Q23F	E-5	82.5	44	2.7	3.8	350	4800	
Intel® Xeon® Processor Platinum 8460H	Intel	Sapphire Rapids	Q23V	E-5	105	40	2.2	3.8	330	4800	
Intel® Xeon® Processor Platinum 8460Y+	Intel	Sapphire Rapids	Q238	E-5	105	40	2	3.7	300	4800	
Intel® Xeon® Processor Platinum 8461V	Intel	Sapphire Rapids	Q23E	E-5	97.5	48	2.2	3.7	300	4800	
Intel® Xeon® Processor Platinum 8462Y+	Intel	Sapphire Rapids	Q237	S-3	60	32	2.8	4.1	300	4800	
Intel® Xeon® Processor Platinum 8468	Intel	Sapphire Rapids	Q237	E-5	105	48	2.1	3.8	350	4800	
Intel® Xeon® Processor Platinum 8468H	Intel	Sapphire Rapids	Q242	E-5	105	48	2.1	3.8	330	4800	
Intel® Xeon® Processor Platinum 8468V	Intel	Sapphire Rapids	Q23D	E-5	97.5	48	2.4	3.8	330	4800	
Intel® Xeon® Processor Platinum 8470	Intel	Sapphire Rapids	Q236	E-5	105	52	2	3.8	350	4800	
Intel® Xeon® Processor Platinum 8480+	Intel	Sapphire Rapids	Q23T	E-5	105	56	2	3.8	350	4800	
Intel® Xeon® Processor Platinum 8490H	Intel	Sapphire Rapids	Q23U	E-5	112.5	60	1.9	3.5	350	4800	
Intel® Xeon® Processor Silver 3408U	Intel	Sapphire Rapids	Q278	S-3	22.5	8	1.8	1.9	125	4000	
Intel® Xeon® Processor Silver 4410T	Intel	Sapphire Rapids	Q27V	S-3	26.25	10	2.7	4	150	4000	
Intel® Xeon® Processor Silver 4410Y	Intel	Sapphire Rapids	Q27D	S-3	30	12	2	3.9	150	4000	
Intel® Xeon® Processor Silver 4416+	Intel	Sapphire Rapids	Q27F	S-3	37.5	20	2	3.9	165	4000	
Don't write "Test Items" under this line!!!											
Memory											
Product Name	Vendor	Memory Type	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
RDIMM											
Don't write "Test Items" under this line!!!											
A04V48UCSV1-BHRS	ADATA	DDR5	16GB	Samsung-Montage	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
A04V48UCV2-BHSS	ADATA	DDR5	32GB	Samsung-Montage	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
MTC10F1084S1RC48BA1 HCCG	Micron	DDR5	16GB	Micron-IDT	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
MTC20F2085S1RC48BA1 HCCG	Micron	DDR5	32GB	Micron-IDT	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
MTC20F1045S1RC48BA2 HCCH	Micron	DDR5	32GB	Micron-Rambus	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
MTC20F2085S1RC48BA1 HCCH	Micron	DDR5	32GB	Micron-Rambus	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
MTC20F1045S1RC48BA2 HCCG	Micron	DDR5	32GB	Micron-IDT	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
MTC40F2046S1RC48BA1 FCCJ	Micron	DDR5	64GB	Micron-Montage	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
MTC40F2046S1RC48BA1 GCCG	Micron	DDR5	64GB	Micron-IDT	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R2GA3B90-CQKVG	Samsung	DDR5	16GB	Samsung-Rambus	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
M321R2GA3B96-CQKVS	Samsung	DDR5	16GB	Samsung-Rambus	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
M321R4GA0B90-CQKVG	Samsung	DDR5	32GB	Samsung-Montage	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R4GA0B90-CQKMG	Samsung	DDR5	32GB	Samsung-Montage	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R8GA0B90-CQKVG	Samsung	DDR5	64GB	Samsung-IDT	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R8GA0B90-CQKDG	Samsung	DDR5	64GB	Samsung-IDT	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R8GA0B90-CQKDG	Samsung	DDR5	64GB	Samsung-Rambus	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
M321R8GA0B90-CQKVS	Samsung	DDR5	64GB	Samsung-Rambus	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG78AEBRA107N AA	SKhynix	DDR5	16GB	SKhynix-Montage	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG78AEBRA115N AA	SKhynix	DDR5	16GB	SKhynix-IDT	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG78AEBRA168N AA	SKhynix	DDR5	16GB	SKhynix-IDT	1Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG84AEBRA168N AA	SKhynix	DDR5	32GB	SKhynix-IDT	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG88AEBRA107N AA	SKhynix	DDR5	32GB	SKhynix-Montage	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG88AEBRA115N AA	SKhynix	DDR5	32GB	SKhynix-IDT	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG88AEBRA113N AA	SKhynix	DDR5	32GB	SKhynix-IDT	2Rx8	1.1v	4800MHz	ECC Registered	288-pin		
HMCG84AEBRA107N AA	SKhynix	DDR5	32GB	SKhynix-Montage	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG84AEBRA115N AA	SKhynix	DDR5	32GB	SKhynix-IDT	1Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG94AEBRA123N AA	SKhynix	DDR5	64GB	SKhynix-IDT	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG94AEBRA109N AA	SKhynix	DDR5	64GB	SKhynix-Montage	2Rx4	1.1v	4800MHz	ECC Registered	288-pin		
HMCG94AEBRA109N AA	SKhynix	DDR5	64GB	SKhynix-Montage	2Rx4	1.1v	4800MHz	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!!!											
ST2000NX0253	Seagate	SATA	2.5"	512e	2TB	6GB/s	Exos 7E2000	128MB	7200	N/A	
ST2000NX0243	Seagate	SATA	2.5"	4Kn	2TB	6GB/s	Exos 7E2000	128MB	7200	N/A	
ST1000NM0016	Seagate	SATA	3.5"	512e	10TB	6GB/s	Exos X10	256MB	7200	N/A	
ST1400NM0018	Seagate	SATA	3.5"	512e/4Kn	14TB	6GB/s	Exos X14	256MB	7200	N/A	
ST1600NM001G	Seagate	SATA	3.5"	512e/4Kn	16TB	6GB/s	Exos X16	256MB	7200	N/A	
ST1800NM000J	Seagate	SATA	3.5"	512e/4Kn	18TB	6GB/s	Exos X18	256MB	7200	N/A	
ST2000NM007D	Seagate	SATA	3.5"	512e/4Kn	20TB	6GB/s	Exos X20	256MB	7200	N/A	
MG09ADA900E	Toshiba	SATA	3.5"	512e	8TB	6GB/s	MG09-D	256MB	7200	N/A	
MG09ACA18TE	Toshiba	SATA	3.5"	512e	18TB	6GB/s	MG09	512MB	7200	N/A	
HUS722T2TALA604	WD	SATA	3.5"	512n	2TB	6GB/s	Ultrastar DC HA210	128MB	7200	N/A	
HUS726T6TAL6E4L4	WD	SATA	3.5"	512e	6TB	6GB/s	Ultrastar DC HC310	256MB	7200	N/A	
HUK12200B0EQL4	WD	SATA	3.5"	512e	20TB	6GB/s	Ultrastar DC HC580	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!!!											
MTFDDAK1T9TDS-1AW1ZABYY	Micron	SSD	2.5"	SATA	4.92TB	6GB/s	5300 PRO Series				
MTFDDAK3T8TDS-1AW1ZABYY	Micron	SSD	2.5"	SATA	3.84TB	6GB/s	5300 PRO Series				
MZL13480HCHQ-00A07 PM893 Series	Micron	SSD	2.5"	SATA	480GB	6GB/s					
ESB1K3GTLGW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	1.92TB	6GB/s					
ESB1K3GTLGW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	1.92TB	6GB/s	ESM1720 Series				
ESB240GTLGW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	240GB	6GB/s	ESW1710 Series				
ESB480GTLGW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	480GB	6GB/s	ESW1710 Series				
ESB480GTLGW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	480GB	6GB/s	ESM1720 Series				
ESB960GTLGW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	960GB	6GB/s	ESM1720 Series				
ESB960GTLGW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	960GB	6GB/s	ESW1710 Series				
MZL13179H8NA-00A07	Samsung	SSD	2.5"	SATA	1.92TB	6GB/s	PM897 Series				
MZL13379HBLT-00A07	Samsung	SSD	2.5"	SATA	3.84TB	6GB/s	PM893 Series				
MZL13379HBLT-00A07 PM893 Series	Samsung	SSD	2.5"	SATA	3.84TB	6GB/s					
MZL13480HCHQ-00A07	S										

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		
MTFDDAK19TDS-1AW1ZABYY (5300 PRO)	Micron	SSD	2.5"	SATA	1.92TB	6Gb/s			
MTFDDAK38TDS-1AW1ZABYY (5300 PRO)	Micron	SSD	2.5"	SATA	3.84TB	6Gb/s			
Don't write "Test Items" under this line!!!									
<b>M.2</b>									
Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note		
Don't write "Test Items" under this line!!!									
MTFDKBA800TFC	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4	7400 Max Series		
MTFDKBA800TFS	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4	7450 Max Series		
CA6-8D1024	SSSTC	M.2	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4	CA6 Series		
Don't write "Test Items" under this line!!!									
<b>PCIe SSD</b>									
Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note		
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	Gen3 x8			
Don't write "Test Items" under this line!!!									
<b>RAID Card</b>									
Product Name	Vendor	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	Extrenal Ports	External Connectors	Data Transfer Rate	Note
<b>Broadcom</b>									
Don't write "Test Items" under this line!!!									
HBA 9500-16i Tri-Mode Storage Adapter (NVMe)	Broadcom	SAS3816	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
HBA 9500-16i Tri-Mode Storage Adapter (SAS/SATA mode)	Broadcom	SAS3816	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
MegaRAID 9560-16i (SAS/SATA mode)	Broadcom	SAS3916 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
MegaRAID 9560-16i Tri-Mode (NVMe)	Broadcom	SAS3916 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port	
Don't write "Test Items" under this line!!!									
<b>LSI</b>									
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	
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	
Don't write "Test Items" under this line!!!									
<b>LAN Card</b>									
Product Name	Vendor	Connector	System InterfaceType	# of Ports	Data Rate	Note			
<b>Broadcom</b>									
Don't write "Test Items" under this line!!!									
BCM957416A4160C	Broadcom	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	BCM5741 (P210TP)			
Don't write "Test Items" under this line!!!									
<b>Chelsio</b>									
Don't write "Test Items" under this line!!!									
TE40-LP-CR	Chelsio	SFP+	PCIe Gen3 x8	Quad	10Gb/s per port	Power 11w			
Don't write "Test Items" under this line!!!									
<b>GIGABYTE</b>									
Don't write "Test Items" under this line!!!									
GLN4224	GIGABYTE	RJ-45	PCIe Gen3 x8	Quad	10Gb/s per port	INTEL X550-AT2			
GLN4752	GIGABYTE	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port	INTEL XL710-BM2			
GLN4M34	GIGABYTE	SFP28	PCIe Gen3 x16	Quad	10Gb/s per port	Mellanox ConnectX-4			
Don't write "Test Items" under this line!!!									
<b>Intel</b>									
Don't write "Test Items" under this line!!!									
E810-CQDA2	Intel	QSFP28	PCIe Gen4 x16	Dual	100Gb/s per port				
E810-XXVDA4	Intel	SFP28	PCIe Gen4 x16	Quad	25Gb/s per port	Controller E810-CAM1			
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 E810-XXVDA4	Intel	SFP28	PCIe Gen4 x16	Quad	25Gb/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				
X722-DA4	Intel	SFP+	PCIe Gen3 x8	Quad	10Gb/s per port				
XL710-QDA2	Intel	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port				
XXV710-DA2	Intel	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port				
Don't write "Test Items" under this line!!!									
<b>NVIDIA</b>									
Don't write "Test Items" under this line!!!									
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	ConnectX6-6 Dx No Crypto, No Secure Boot			
MCX631102AN-ADAT	NVIDIA	SFP28	PCIe Gen4 x8	Dual	25Gb/s per port	ConnectX6-6 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)			
MCX75310AAS-NEAT	NVIDIA	QSFP	PCIe Gen5 x16	Single	400Gb/s per port	NVIDIA ConnectX-7 VPI (InfiniBand)			
Don't write "Test Items" under this line!!!									
<b>USB</b>									
Product Name	Vendor	Type	Spec	Capacity	Note				
<b>USB 3.1 Type A</b>									
Don't write "Test Items" under this line!!!									
S1-DS3-Plus	CyberSUIJ	Device	USB 3.1 Type A						
PURE CLASSIC X17681FWBO75	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						
SST-TS13	Silver Stone	Device	USB 3.1 Type A						
310-SB3(6G)	STARDOM	Device	USB 3.1 Type A						
Don't write "Test Items" under this line!!!									
<b>Power-PSU</b>									
Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	Note			
<b>PSU</b>									
Don't write "Test Items" under this line!!!									
FSP2000-S2AGPBI	FSP	100~240Vac	2000W	Desktop	NA				
Don't write "Test Items" under this line!!!									