

## Qualification Vendor List

AMD CPU											
Product Name	Vendor	Code Name	Stepping	L3 Cache	# of Cores / Threads	Processor of Base Frequency (GHz)	Processor Boost Max Frequency (GHz)	Default TDP	cTDP Min / cTDP Max	Memory Types	Note
<b>Raphael</b>											
Don't write "Test Items" under this line!!!											
Ryzen 5 7600	AMD	Raphael		32MB	6C / 12T	3.8GHz	5.1GHz	65W		DDR5	
Ryzen 5 7600X	AMD	Raphael		32MB	6C / 12T	4.7GHz	5.3GHz	105W		DDR5	
Ryzen 7 7700	AMD	Raphael		32MB	8C / 16T	3.8GHz	5.3GHz	65W		DDR5	
Ryzen 7 7700X	AMD	Raphael		32MB	8C / 16T	4.5GHz	5.4GHz	105W		DDR5	
Ryzen 7 7800X3D	AMD	Raphael		96MB	8C / 16T	4.2GHz	5.0GHz	120W		DDR5	
Ryzen 9 7900	AMD	Raphael		64MB	12C / 24T	3.7GHz	5.4GHz	65W		DDR5	
Ryzen 9 7900X	AMD	Raphael		64MB	12C / 24T	4.7GHz	5.6GHz	170W		DDR5	
Ryzen 9 7900X3D	AMD	Raphael		128MB	12C / 24T	4.4GHz	5.6GHz	120W		DDR5	
Ryzen 9 7950X	AMD	Raphael		64MB	16C / 32T	4.5GHz	5.7GHz	170W		DDR5	
Ryzen 9 7950X3D	AMD	Raphael		128MB	16C / 32T	4.2GHz	5.7GHz	120W		DDR5	
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
<b>UDIMM</b>											
Don't write "Test Items" under this line!!!											
AD5U48006G-DT	ADATA	DDR5	8GB				4800MHz	NonECC			
AD5U480016G-DT	ADATA	DDR5	16GB				4800MHz	NonECC			
AU16GHB48CTBBGC	Apacer	DDR5	16GB				4800MHz	NonECC			
D32 31280S.001	Apacer	DDR5	16GB				4800MHz	ECC			
CT8G48C40U5	CRUCIAL	DDR5	8GB				4800MHz	NonECC			
CT8G48C40U5.4AY	CRUCIAL	DDR5	8GB				4800MHz	NonECC			
CT8G48C40S8U5.C8B1	CRUCIAL	DDR5	8GB				4800MHz	NonECC			
CT16G48C40D8U5.C1B1	CRUCIAL	DDR5	16GB				4800MHz	NonECC			
CT16G48C40U5	CRUCIAL	DDR5	16GB				4800MHz	NonECC			
CT16G48C40U5.8AW	CRUCIAL	DDR5	16GB				4800MHz	NonECC			
CT32G48C40U5	CRUCIAL	DDR5	32GB				4800MHz	NonECC			
M5C0-AGS21.CVP-D33	innodisk	DDR5	16GB				4800MHz	ECC			
M5C0-BGS21.MCVP-D33	innodisk	DDR5	32GB				4800MHz	ECC			
KTFGU5MA8-M	Kingtigo	DDR5	16GB				4800MHz	NonECC			
KM-LD5-4800-16GS	KINGMAX	DDR5	16GB				4800MHz	NonECC			
KF548C38BBK2-16	Kingston	DDR5	8GB				4800MHz	NonECC			
KF556C40BBK2-16	Kingston	DDR5	8GB				4800MHz	NonECC			
KVR48U40BS8K2-32	Kingston	DDR5	16GB				4800MHz	NonECC			
KF548C38BBK2-32	Kingston	DDR5	16GB				4800MHz	NonECC			
KSM48E40BS8KM-16HM	Kingston	DDR5	16GB				4800MHz	ECC			
9270333	Kingston	DDR5	16GB				4800MHz	NonECC			
KSM48E40BD8KM-32HM	Kingston	DDR5	16GB				4800MHz	ECC			
KF548C38BBK2-64	Kingston	DDR5	32GB				4800MHz	NonECC			
KD5AGUA8M-48G4000	KLEVV	DDR5	16GB				4800MHz	NonECC			
PSD532G480041	PATRIOT	DDR5	8GB				4800MHz	NonECC			
PSD532G4800K	PATRIOT	DDR5	16GB				4800MHz	NonECC			
M323R1GB4BB0-CQKPN	Samsung	DDR5	8GB				4800MHz	NonECC			
M323R4GA3BB0-CQK0D	Samsung	DDR5	32GB				4800MHz	NonECC			
TE16GFLEV1MH	TEAMGROUP	DDR5	16GB				4800MHz	ECC			
TE32GFLEV1MH	TEAMGROUP	DDR5	32GB				4800MHz	ECC			
TS4800ALE-16G	Transcend	DDR5	16GB				4800MHz	NonECC			
TS4800ALE-32G	Transcend	DDR5	32GB				4800MHz	NonECC			
KM-LD5-5200-16GS	KINGMAX	DDR5	16GB				5200MHz	NonECC			
SR6G7UD3385MB01	SMART	DDR5	48GB				4800MHz	ECC			
MTC10C1084S1EC56BAZ BC	Micron	DDR5	16GB				5600MHz	ECC			Restricted to 5200MHz
MTC20C2085S1EC56BAZ BC	Micron	DDR5	32GB				5600MHz	ECC			Restricted to 5200MHz
TE16GFLEV2MH	TEAMGROUP	DDR5	16GB				5600MHz	ECC			Restricted to 5200MHz
TE32GFLEV2MH	TEAMGROUP	DDR5	32GB				5600MHz	ECC			Restricted to 5200MHz
SATA/SAS HDD											
Product Name	Vendor	Type	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encription	FW
<b>SATA</b>											
Don't write "Test Items" under this line!!!											
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	
MG09ACA18TE	Toshiba	SATA	3.5"	512e	18TB	6Gb/s	MG09	512MB	7200	N/A	
HUS722T2TAL804	WD	SATA	3.5"	512n	2TB	6Gb/s	Ultrastar DC HA210	128MB	7200	N/A	
HUS728T6TAL8L4	WD	SATA	3.5"	512e	6TB	6Gb/s	Ultrastar DC HC310	256MB	7200	N/A	
WUH721818ALE0L4	WD	SATA	3.5"	512e	18TB	6Gb/s	Ultrastar DC HC550	512MB	7200	N/A	
WUH722020BLE0L4	WD	SATA	3.5"	512e	20TB	6Gb/s	Ultrastar DC HC560	512MB	7200	N/A	
WUH722222ALE0L4	WD	SATA	3.5"	512e	22TB	6Gb/s	Ultrastar DC HC570	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				
<b>SATA</b>											
Don't write "Test Items" under this line!!!											
MTFDDAK1T9TGA-1BC1ZABYY	Micron	SSD	2.5"	SATA	1.92TB	6Gb/s	5400 PRO Series				
MTFDDAK1T9TGB-1BC1ZABYY	Micron	SSD	2.5"	SATA	1.92TB	6Gb/s	5400 MAX Series				
SSB1K9GTLWCW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	1.92TB	6Gb/s	ESM1720 Series				
SSB240GTLWCW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	240GB	6Gb/s	ESW1710 Series				
SSB480GTLWCW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	480GB	6Gb/s	ESM1720 Series				
SSB480GTLWCW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	480GB	6Gb/s	ESW1710 Series				
SSB960GTLWCW-D2-ESW1710GBT	Phison	SSD	2.5"	SATA	960GB	6Gb/s	ESW1710 Series				
SSB960GTLWCW-D2-SME1720GBT	Phison	SSD	2.5"	SATA	960GB	6Gb/s	ESM1720 Series				
MZ7L31T9H8NA-00A07	Samsung	SSD	2.5"	SATA	1.92TB	6Gb/s	PM897 Series				
MZ7L3480HCHQ-00A07	Samsung	SSD	2.5"	SATA	480GB	6Gb/s	PM893 Series				
SSD9C2K8019TZ	Solidigm	SSD	2.5"	SATA	1.92TB	6Gb/s	D3-S4520 Series				
SSD9C2K8019TZ	Solidigm	SSD	2.5"	SATA	1.92TB	6Gb/s	D3-S4620 Series				
SSD9C2K8038TZ	Solidigm	SSD	2.5"	SATA	3.84TB	6Gb/s	D3-S4620 Series				
SSD9C2K8240GZ	Solidigm	SSD	2.5"	SATA	240GB	6Gb/s	D3-S4520 Series				
SSD9C2K8480GZ	Solidigm	SSD	2.5"	SATA	480GB	6Gb/s	D3-S4520 Series				
SSD9C2K8480GZ01	Solidigm	SSD	2.5"	SATA	480GB	6Gb/s	D3-S4620 Series				
SSD9C2K8960GZ01	Solidigm	SSD	2.5"	SATA	960GB	6Gb/s	D3-S4620 Series				
Don't write "Test Items" under this line!!!											
M.2											
Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note				
<b>M.2</b>											
Don't write "Test Items" under this line!!!											
MZ-1LB1T9N	Samsung	M.2	22110	PCIe(NVMe)	1.92TB	PCIe Gen3 x4	963 DCT Series				
IM2P41B8-480GC	ADATA	M.2	2280	PCIe(NVMe)	480GB	PCIe Gen4 x4					
MTFDK8G1T9TDZ	Micron	M.2	22110	PCIe(NVMe)	1.92TB	PCIe Gen4 x4	7400 Pro Series				
MTFDK8G3T8TDZ	Micron	M.2	22110	PCIe(NVMe)	3.84TB	PCIe Gen4 x4	7400 Pro Series				
MTFDK8G3T8TFR	Micron	M.2	22110	PCIe(NVMe)	3.84TB	PCIe Gen4 x4	7450 Pro Series				
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				
ESO480GTLWCW-EC-EPR3750GBT	PHISON	M.2	2280	PCIe(NVMe)	400GB	PCIe Gen4 x4	EPR3750 Series				
MZ1L21T9HCLS	Samsung	M.2	22110	PCIe(NVMe)	1.92TB	PCIe Gen4 x4	PM9A3 Series				
MZ1L2960HCJR	Samsung	M.2	22110	PCIe(NVMe)	960GB	PCIe Gen4 x4	PM9A3 Series				
CA6-8D2048	SSSTC	M.2	2280	PCIe(NVMe)	2TB	PCIe Gen4 x4	CA6 Series				

GPGPU									
Product Name	Vendor	Processor Cores	Memory Bandwidth (GB/sec)	VRAM	OpenGL	DirectX	Graphics Card Power (W)	SLI / CrossFire Ready	Note
<b>Tesla</b>									
Don't write "Test Items" under this line!!!									
A40	NVIDIA	10752	696 GB/s	48GB			300 W		
Don't write "Test Items" under this line!!!									
<b>Quadro</b>									
Don't write "Test Items" under this line!!!									
RTX A6000	NVIDIA	10752	768 GB/s	48GB			300 W		
Don't write "Test Items" under this line!!!									
RAID Card									
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!!!									
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 12Gb/s per port	
MegaRAID 9560-8i (SAS/SATA mode)	Broadcom	SAS3908 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	8	1 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
MegaRAID 9560-8i Tri-Mode (NVMe)	Broadcom	SAS3908 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	8	1 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
Don't write "Test Items" under this line!!!									
LAN Card									
Product Name	Vendor	Connector	System InterfaceType	# of Ports	Data Rate	Note			
<b>GIGABYTE</b>									
Don't write "Test Items" under this line!!!									
CLN4312	GIGABYTE	RJ-45	PCIe Gen2 x4	Dual	1Gb/s per port	INTEL i350-AM2			
CLN4314	GIGABYTE	RJ-45	PCIe Gen2 x4	Quad	1Gb/s per port	INTEL i350-AM4			
Don't write "Test Items" under this line!!!									
<b>NVIDIA</b>									
Don't write "Test Items" under this line!!!									
MCX75510AAS-NEAT	NVIDIA	OSFP	PCIe Gen5 x16	Single	400Gb/s per port	Mellanox ConnectX-7 (without Dual-Slot Socket Dire			
Don't write "Test Items" under this line!!!									
USB									
Product Name	Vendor	Type	Spec	Capacity	Note				
<b>USB 2.0</b>									
Don't write "Test Items" under this line!!!									
NST-D100	NexStar	HDD Dock	USB 2.0						
NST-200SU-BK	Vantec	HDD Dock	USB 2.0						
Don't write "Test Items" under this line!!!									
<b>USB 3.1 Type A</b>									
Don't write "Test Items" under this line!!!									
S1-DS3-Plus	CyberSLIM	Device	USB 3.1 Type A						
MB981U3-1S	ICYDOCK	Device	USB 3.1 Type A						
NA317U+	ineo	Device	USB 3.1 Type A						
ESW863 8X SLIM	NU	DVD	USB 3.1 Type A						
SST-TS13	Silver Stone	Device	USB 3.1 Type A						
CANVIO BASIC	Toshiba	HDD	USB 3.1 Type A	500G					
WDBACW0010HBK-00	WD	HDD Dock	USB 3.1 Type A						
WDBS4B0020BBK	WD	HDD BOX 2.5"	USB 3.1 Type A						
U3I-682	伽利略	HDD Dock	USB 3.1 Type A						
Don't write "Test Items" under this line!!!									
Peripheral-USB									
Product Name	Vendor	Type	Spec	Capacity	Note				
<b>USB 2.0</b>									
Don't write "Test Items" under this line!!!									
NST-D100	NexStar	HDD Dock	USB 2.0						
NST-200SU-BK	Vantec	HDD Dock	USB 2.0						
Don't write "Test Items" under this line!!!									
<b>USB 3.1 Type A</b>									
Don't write "Test Items" under this line!!!									
S1-DS3-Plus	CyberSLIM	Device	USB 3.1 Type A						
MB981U3-1S	ICYDOCK	Device	USB 3.1 Type A						
NA317U+	ineo	Device	USB 3.1 Type A						
ESW863 8X SLIM	NU	DVD	USB 3.1 Type A						
SST-TS13	Silver Stone	Device	USB 3.1 Type A						
CANVIO BASIC	Toshiba	HDD	USB 3.1 Type A	500G					
WDBACW0010HBK-00	WD	HDD Dock	USB 3.1 Type A						
WDBS4B0020BBK	WD	HDD BOX 2.5"	USB 3.1 Type A						
U3I-682	伽利略	HDD Dock	USB 3.1 Type A						
Don't write "Test Items" under this line!!!									