GIGABYTE™

Qualification Vendor List

Intel CPU

Product Name	Vendor	Code Name	Q-Spec	Stepping	Cache	# of Cores	Processor Base Frequency (GHz)	Max Turbo Frequency (GHz)	TDP	Memory Types
AlderLake-S - 12th Generation Intel® Processors										
Don't write "Test Items" under this line!!!										
G7400	Intel	AlderLake-S	QYVV	H-0	6MB	2 (2+0)	3.7GHz	N/A	46W	DDR4-3200 / DDR5-4800
G7400T	Intel	AlderLake-S	QYVU	H-0	6MB	2	3.1GHz	3.1GHz	35W	DDR4-3200 / DDR5-4800
Don't write "Test Items" under this line!!!										
RaptorLake-E - Intel® Xeon® E Processor										
Don't write "Test Items" under this line!!!										
E-2414	Intel	RaptorLake-E	Q2JG	B-0	12MB	4C/8T	2.6 GHz	4.5 GHz	55W	DDR5-4800
E-2434	Intel	RaptorLake-E	Q2JE	B-0	12MB	4C/8T	3.4 GHz	5.0 GHz	55W	DDR5-4800
E-2436	Intel	RaptorLake-E	Q2JC	B-0	18MB	6C/12T	2.9 GHz	5.0 GHz	65W	DDR5-4800
E-2456	Intel	RaptorLake-E	Q2JB	B-0	18MB	6C/12T	3.3 GHz	5.1 GHz	80W	DDR5-4800
E-2468	Intel	RaptorLake-E	Q2J8	B-0	24MB	8C/16T	2.6 GHz	5.0 GHz	65W	DDR5-4800
E-2478	Intel	RaptorLake-E	Q2J7	B-0	18MB	6C/12T	2.8 GHz	5.0 GHz	80W	DDR5-4800
E-2486	Intel	RaptorLake-E	Q2JA	B-0	24MB	8C/16T	3.5 GHz	5.4 GHz	95W	DDR5-4800
E-2488	Intel	RaptorLake-E	Q2J6	B-0	24MB	8C/16T	3.2 GHz	5.4 GHz	95W	DDR5-4800
Don't write "Test Items" under this line!!!										

Memory

Product Name	Vendor	Memory Type	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	Pins	Note
DDR5 UDIMM										
Don't write "Test Items" under this line!!!										
D32.31280S.001	Apacer	DDR5	16GB	SEC	1Rx8	1.1V	4800MHz	ECC		Restricted to 4400MHz
M5C0-AGS2LCVP-D33	innodisk	DDR5	16GB		1Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
M5C0-BGS2MCVP-D33	innodisk	DDR5	32GB		2Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
KSM48E40BS8KM-16HM	Kingston	DDR5	16GB	Skhinix	1Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
KSM48E40BD8KM-32HM	Kingston	DDR5	32GB	Skhinix	2Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
TE16GFLEV1MH	TEAMGROUP	DDR5	16GB	SkHynix A-Die	1Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
TE32GFLEV1MH	TEAMGROUP	DDR5	32GB	SkHynix A-Die	2Rx8	1.1v	4800MHz	ECC		Restricted to 4400MHz
MTC10C1084S1EC56BAZ BC	Micron	DDR5	16GB		2Rx8	1.1v	5600MHz	ECC		Restricted to 4400MHz
MTC20C2085S1EC56BAZ BC	Micron	DDR5	32GB		2Rx8	1.1v	5600MHz	ECC		Restricted to 4400MHz
TE16GFLEV2MH	TEAMGROUP	DDR5	16GB	SkHynix A-Die	1Rx8	1.1v	5600MHz	ECC		Restricted to 4400MHz
TE32GFLEV2MH	TEAMGROUP	DDR5	32GB	SkHynix A-Die	2Rx8	1.1v	5600MHz	ECC		Restricted to 4400MHz
Don't write "Test Items" under this line!!!										

HDD

Product Name	Vendor	Type	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encrption
SATA HDD										
Don't write "Test Items" under this line!!!										
ST2000NX0253	Seagate	SATA	2.5"	512e	2TB	6Gb/s	Exos 7E2000	128MB	7200	N/A
ST16000NM001G	Seagate	SATA	3.5"	512e/4Kn	16TB	6Gb/s	Exos X16	256MB	7200	N/A
ST18000NM0092	Seagate	SATA	3.5"	512e/4Kn	18TB	6Gb/s	EXOS 2x18	256MB	7200	standard
ST18000NM000J	Seagate	SATA	3.5"	512e/4Kn	18TB	6Gb/s	Exos X18	256MB	7200	N/A
ST22000NM001E	Seagate	SATA	3.5"	512e	22TB	6Gb/s	Exos X22	512MB	7200	N/A
MG08ADA800E	Toshiba	SATA	3.5"	512e	8TB	6Gb/s	MG08-D	256MB	7200	N/A
MG08ACA16TE	Toshiba	SATA	3.5"	512e	16TB	6Gb/s	MG08	512MB	7200	N/A
MG09ACA18TE	Toshiba	SATA	3.5"	512e	18TB	6Gb/s	MG09	512MB	7200	N/A
MG10ACA20TE	Toshiba	SATA	3.5"	512e	20TB	6Gb/s	MG10	512MB	7200	N/A
HUS722T2TALA604	WD	SATA	3.5"	512n	2TB	6Gb/s	Ultrastar DC HA210	128MB	7200	N/A
HUS726T6TALE6L4	WD	SATA	3.5"	512e	6TB	6Gb/s	Ultrastar DC HC310	256MB	7200	N/A
WUH721818ALE6L4	WD	SATA	3.5"	512e	18TB	6Gb/s	Ultrastar DC HC550	512MB	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!!!										

NVMe/SATA M.2

Product Name	Vendor	Type	Form Factor	Interface	Capacity	Interface Speed	Note
NVMe M.2							
Don't write "Test Items" under this line!!!							
IM2P41B8-240GC	ADATA	M.2	2280	PCIe(NVMe)	240GB	PCIe Gen4 x4	
IM2P41B8-480GC	ADATA	M.2	2280	PCIe(NVMe)	480GB	PCIe Gen4 x4	
MTFDKBA800TFS	Micron	M.2	2280	PCIe(NVMe)	800GB	PCIe Gen4 x4	7450 Max Series
ESO480GTLCW-EC-EPR3750GBT	PHISON	M.2	2280	PCIe(NVMe)	400GB	PCIe Gen4 x4	EPR3750 Series
CA6-8D256	SSSTC	M.2	2280	PCIe(NVMe)	256GB	PCIe Gen4 x4	CA6 Series
CA6-8D512	SSSTC	M.2	2280	PCIe(NVMe)	512GB	PCIe Gen4 x4	CA6 Series
CA6-8D1024	SSSTC	M.2	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4	CA6 Series
CA6-8D2048	SSSTC	M.2	2280	PCIe(NVMe)	2TB	PCIe Gen4 x4	CA6 Series
Don't write "Test Items" under this line!!!							

Product Name	Vendor	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	Extrenal Ports	External Connectors	Data Transfer Rates	Note
Storage Card									
Broadcom									
Don't write "Test Items" under this line!!!									
eHBA 9600-16i Tri-Mode Storage Adapter (SAS/SATA mode)	Broadcom	SAS4016 (Avenger IOC)	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port	
eHBA 9600-24i Tri-Mode Storage Adapter (SAS/SATA mode)	Broadcom	SAS4024 (Avenger IOC)	PCIe Gen4 x8	24	3 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port	
eHBA 9620-16i Tri-Mode Storage Adapter (SAS/SATA mode)	Broadcom	SAS4106 (Avenger IOC)	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/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	
HBA 9500-8e Tri-Mode Storage Adapter	Broadcom	SAS3808	PCIe Gen4 x8	-	-	8	2 SFF-8644	Up to 12Gb/s per port	
MegaRAID 9540-8i (SAS/SATA mode)	Broadcom	SAS3808 Tri-Mode RAID-on-Chip (ROC)	x8 lane PCI Express® 4.0	8	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
MegaRAID 9540-8i (SAS/SATA mode)	Broadcom	SAS3808 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	8	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 9660-16i (SAS/SATA mode)	Broadcom	SAS4116 (Avenger ROC)	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port	
MegaRAID 9670W-16i (SAS/SATA mode)	Broadcom	SAS4116W (Avenger ROC)	PCIe Gen4 x16	16	2 SlimSAS SFF-8654	-	-	Up to 24Gb/s per port	
Don't write "Test Items" under this line!!!									
GIGABYTE									
Don't write "Test Items" under this line!!!									
CRA4760 (SAS/SATA mode)	GIGABYTE	LSI SAS 3908 (Up to 32 x physical devices)	PCIe Gen4 x8	8	1 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
CSA4820 (SAS/SATA mode)	GIGABYTE	LSI SAS 3816	PCIe Gen4 x8	16	2 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port	
Don't write "Test Items" under this line!!!									

Product Name	Vendor	Connector	System Interface Type	# of Ports	Data Rate	Note
LAN Cards						
Broadcom						
Don't write "Test Items" under this line!!!						
BCM957416A4160C	Broadcom	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	BCM57416 (P210TP)
LPe31002-M6	Broadcom	SFP+	PCIe Gen3 x8	Dual	16Gb/s per port	XE501 controller
BCM957414A4142CC	Broadcom	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	BCM57414 (P225P)
LPe32002-M2	Broadcom	SFP+	PCIe Gen3 x8	Dual	32Gb/s per port	XE501 controller
BCM957508-P2100G	Broadcom	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	BCM57508
Don't write "Test Items" under this line!!!						
Chelsio						
Don't write "Test Items" under this line!!!						
T540-LP-CR	Chelsio	SFP+	PCIe Gen3 x8	Quad	10Gb/s per port	Power 11w

T6225-SO-CR	Chelsio	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Power 10w
T6225-CR	Chelsio	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Power 13w
Don't write "Test Items" under this line!!!						
GIGABYTE						
Don't write "Test Items" under this line!!!						
CLN4A10	GIGABYTE	RJ-45	PCIe Gen3 x8	Dual	1Gb/s per port	Broadcom BCM5720L
CLN4222	GIGABYTE	RJ-45	PCIe Gen3 x4	Dual	10Gb/s per port	INTEL X550-AT2
CLN4B20	GIGABYTE	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	Broadcom BCM57416
CLN4D40	GIGABYTE	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Broadcom BCM57414
CLN4751	GIGABYTE	QSFP+	PCIe Gen3 x8	Single	40Gb/s per port	INTEL XL710-BM1
CLN4752	GIGABYTE	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port	INTEL XL710-BM2
Don't write "Test Items" under this line!!!						
Intel						
Don't write "Test Items" under this line!!!						
X722-DA4	Intel	SFP+	PCIe Gen3 x8	Quad	10Gb/s per port	
XXV710-DA2	Intel	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	
Don't write "Test Items" under this line!!!						
NVIDIA						
Don't write "Test Items" under this line!!!						
MCX631102AN-ADAT	NVIDIA	SFP28	PCIe Gen4 x8	Dual	25Gb/s per port	Mellanox ConnectX®-6 Lx without Crypto
MCX623106AN-CDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	Mellanox ConnectX®-6 Dx No Crypto, No Secure Boot
MCX516A-CCAT	NVIDIA	QSFP28	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 EN
MCX653106A-ECAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)
MCX515A-CCAT	NVIDIA	QSFP28	PCIe Gen3 x16	Single	100Gb/s per port	Mellanox ConnectX-5 EN
MCX623105AN-CDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Single	100Gb/s per port	Mellanox ConnectX®-6 Dx No Crypto, No Secure Boot
MCX653105A-ECAT	NVIDIA	QSFP56	PCIe Gen4 x16	Single	100Gb/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)
MCX653106A-HDAT	NVIDIA	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)
Don't write "Test Items" under this line!!!						

PSU					
Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	Note
USB						
Don't write "Test Items" under this line!!!						
NST-D100	NexStar	Disk Dock	USB 2.0	USB 2.0		
S1-DS3 TURBO	CyberSLIM	Disk Dock	USB 3.1 Type A	USB 3.2 Gen 1x1		
S1-DS3-Plus	CyberSLIM	Disk Dock	USB 3.1 Type A	USB 3.2 Gen 1x1		
T25U3-6GUASP	CyberSLIM	Disk Dock	USB 3.1 Type A	Disk Dock		
CB-SATAU3-6	Vantec	Disk Dock	USB 3.1 Type A	Disk Dock		
WDBACW0010HBK-00	WD	Disk Dock	USB 3.1 Type A	Disk Dock		
WDBS4B0020BBK	WD	HDD BOX 2.5"	USB 3.1 Type A	HDD BOX 2.5"		
Don't write "Test Items" under this line!!!						

M.2 Expansion PCIe Card						
Product Name	Vendor	Type	Form Factor	Interface	Max. Channels	Interface Speed	Note
M.2 Expansion Card							
Don't write "Test Items" under this line!!!							
CMT3060	Gigabyte	PCIe (Broadcom SAS3816)	2280	PCIe(NVMe)	4	PCIe Gen4 x8	-
CMT3160	Gigabyte	PCIe (Broadcom SAS3816)	22110	PCIe(NVMe)	4	PCIe Gen4 x8	-
Don't write "Test Items" under this line!!!							

USB					
Product Name	Vendor	Type	Spec	Capacity	Note
USB 2.0					
Don't write "Test Items" under this line!!!					
NST-D100	NexStar	Disk Dock	USB 2.0	USB 2.0	
Don't write "Test Items" under this line!!!					

USB 3.1 Type A				
Don't write "Test Items" under this line!!!				
S1-DS3 TURBO	CyberSLIM	Disk Dock	USB 3.1 Type A	USB 3.2 Gen 1x1
S1-DS3-Plus	CyberSLIM	Disk Dock	USB 3.1 Type A	USB 3.2 Gen 1x1
T25U3-6GUASP	CyberSLIM	Disk Dock	USB 3.1 Type A	Disk Dock
CB-SATAU3-6	Vantec	Disk Dock	USB 3.1 Type A	Disk Dock
WDBACW0010HBK-00	WD	Disk Dock	USB 3.1 Type A	Disk Dock
WDBS4B0020BBK	WD	HDD BOX 2.5"	USB 3.1 Type A	HDD BOX 2.5"
Don't write "Test Items" under this line!!!				