

Qualification Vendor List 1.0											
Intel CPU											
Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types	Note
IceLake											
Intel® Xeon® Processor Gold 5315Y	IceLake	QXRR	M1	12MB	11.2	8	3.20 GHz	3.60 GHz	140 W	DDR4-2933	
Intel® Xeon® Processor Gold 5317	IceLake	QXRM	M1	18MB	11.2	12	3.00 GHz	3.60 GHz	150 W	DDR4-2933	
Intel® Xeon® Processor Gold 5318N	IceLake	QXS4	M1	36MB	11.2	24	2.10 GHz	3.40 GHz	150 W	DDR4-2667	
Intel® Xeon® Processor Gold 5318S	IceLake	QXRX	M1	36MB	11.2	24	2.10 GHz	3.40 GHz	165 W	DDR4-2933	
Intel® Xeon® Processor Gold 5318Y	IceLake	QXS2	M1	36MB	11.2	24	2.10 GHz	3.40 GHz	165 W	DDR4-2933	
Intel® Xeon® Processor Gold 5320	IceLake	QXRT	M1	39MB	11.2	26	2.20 GHz	3.40 GHz	185 W	DDR4-2933	
Intel® Xeon® Processor Gold 5320T	IceLake	QXS6	M1	30MB	11.2	20	2.30 GHz	3.50 GHz	150 W	DDR4-2993	
Intel® Xeon® Processor Gold 6326	IceLake	QXS7	M1	24MB	11.2	16	2.90 GHz	3.50 GHz	185 W	DDR4-3200	
Intel® Xeon® Processor Gold 6330	IceLake	QWMC	D1	42MB	11.2	28	2.00 GHz	3.1 GHz	205 W	DDR4-2933	
Intel® Xeon® Processor Gold 6330N	IceLake	QWMC	D1	42MB	11.2	28	2.00 GHz	3.10 GHz	205 W	DDR4-2933	
Intel® Xeon® Processor Gold 6330N	IceLake	QWLP	D1	42MB	11.2	28	2.2 GHz	3.4 GHz	165 W	DDR4-2667	
Intel® Xeon® Processor Gold 6330N	IceLake	QWLP	D1	42MB	11.2	28	2.20 GHz	3.40 GHz	165 W	DDR4-2667	
Intel® Xeon® Processor Gold 6334	IceLake	QXRQ	M1	18MB	11.2	8	3.60 GHz	3.70 GHz	165 W	DDR4-3200	
Intel® Xeon® Processor Gold 6336Y	IceLake	QXRV	M1	36MB	11.2	24	2.40 GHz	3.60 GHz	185 W	DDR4-3200	
Intel® Xeon® Processor Gold 6338	IceLake	SRKJ9	D2	48MB	11.2	32	2.00 GHz	3.20 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Gold 6338	IceLake	QWN3	D1	48MB	11.2	32	2.00 GHz	3.2 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Gold 6338N	IceLake	QWM6	D1	48MB	11.2	32	2.20 GHz	3.50 GHz	185 W	DDR4-2667	
Intel® Xeon® Processor Gold 6338N	IceLake	QWM6	D1	48MB	11.2	32	2.2 GHz	3.5 GHz	185 W	DDR4-2667	
Intel® Xeon® Processor Gold 6338T	IceLake	QXS3	M1	36MB	11.2	24	2.10 GHz	3.40 GHz	165 W	DDR4-3200	
Intel® Xeon® Processor Gold 6342	IceLake	QXRU	M1	36MB	11.2	24	2.80 GHz	3.50 GHz	230 W	DDR4-3200	
Intel® Xeon® Processor Gold 6346	IceLake	QWMD	D1	36MB	11.2	16	3.1 GHz	3.6 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Gold 6346	IceLake	QWMD	D1	36MB	11.2	16	3.10 GHz	3.60 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8352M	IceLake	QXZ0	D2	48MB	11.2	32	2.30 GHz	3.50 GHz	185 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8352V	IceLake	SRK32	D2	54MB	11.2	36	2.10 GHz	3.50 GHz	195 W	DDR4-2933	
Intel® Xeon® Processor Platinum 8352V	IceLake	QWM3	D1	48MB	11.2	32	2.2 GHz	3.4 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8352V	IceLake	QWM3	D1	48MB	11.2	32	2.20 GHz	3.40 GHz	205 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8358P	IceLake	QXCM	D1	48MB	11.2	32	2.6 GHz	3.4 GHz	240 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8358P	IceLake	QXCM	D1	48MB	11.2	32	2.60 GHz	3.40 GHz	240 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8360Y	IceLake	QXBZ	D1	54MB	11.2	36	2.4 GHz	3.5 GHz	250 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8360Y	IceLake	QXBZ	D1	54MB	11.2	36	2.40 GHz	3.50 GHz	250 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8362	IceLake	QXTL	D2	48MB	11.2	32	2.80 GHz	3.60 GHz	265 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8368	IceLake	QWLL	D1	57MB	11.2	38	2.40 GHz	3.40 GHz	270 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8368	IceLake	QWLL	D1	57MB	11.2	38	2.4 GHz	3.4 GHz	270 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8368Q	IceLake	QXC1	D1	57MB	11.2	38	2.80 GHz	3.70 GHz	270 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8380	IceLake	QXC0	D1	60MB	11.2	40	2.30 GHz	3.40 GHz	270 W	DDR4-3200	
Intel® Xeon® Processor Platinum 8380	IceLake	QXC0	D1	60MB	11.2	40	2.3 GHz	3.4 GHz	270 W	DDR4-3200	
Intel® Xeon® Processor Silver 4309Y	IceLake	QXRS	M1	12MB	11.2	8	2.80 GHz	3.60 GHz	105 W	DDR4-2667	
Intel® Xeon® Processor Silver 4310	IceLake	QXRN	M1	18MB	10.4	12	2.10 GHz	3.30 GHz	120 W	DDR4-2667	
Intel® Xeon® Processor Silver 4310T	IceLake	QXRP	M1	15MB	11.2	10	2.30 GHz	3.40 GHz	105 W	DDR4-2667	
Intel® Xeon® Processor Silver 4314	IceLake	QXS8	M1	24MB	11.2	16	2.40 GHz	3.40 GHz	135 W	DDR4-2667	
Intel® Xeon® Processor Silver 4316	IceLake	QXS5	M1	30MB	10.4	20	2.30 GHz	3.40 GHz	150 W	DDR4-2667	
Memory											
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
LRDIMM											
M386A8K40CM2-CVFBY	DDR4	Samsung	64GB	Samsung-IDT	4DRx4	1.2v	2933MHz	ECC Registered	21	288-pin	
M386A8K40DM2-CWELQ	DDR4	Samsung	64GB	Samsung-IDT	4DRx4	1.2v	3200MHz	ECC Registered	22	288-pin	
RDIMM											
M393A8G40A82-CVFBY	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
HMAA8GR7MJR4N-WM T4	DDR4	SKhynix	64GB	SKhynix-Montage	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ 2G9E2TG	DDR4	Micron	32GB	Micron-Montage	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ 2G9E2UG	DDR4	Micron	32GB	Micron-Rambus	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ 2G9E2VG	DDR4	Micron	32GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
CT32G4RF4D293-2G9E2.001	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
CT32G4RF4D293-36FE2	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
M393A2K40EB3-CWEGQ	DDR4	Samsung	16GB	Samsung-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4G40BB3-CWEGQ	DDR4	Samsung	32GB	Samsung-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PZ-3G2R1UI	DDR4	Micron	16GB	Micron-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2J3UI	DDR4	Micron	32GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2R1UI	DDR4	Micron	32GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
AD4R320716G22-BHYA	DDR4	ADATA	16GB	SKhynix-Montage	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RS9/16MER	DDR4	Kingston	16GB	Micron-Rambus	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RS4/32MER	DDR4	Kingston	32GB	Micron-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2J3UI	DDR4	Micron	32GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWEGQ	DDR4	Samsung	32GB	Samsung-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWBEQ	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4G40BB3-CWBEQ	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4G40BB3-CWBEQ	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4G40B32-CAEBQ	DDR4	Samsung	128GB	Samsung	2SRx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7DJR4N-XN T4	DDR4	SKhynix	32GB	SKhynix-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7CJR4N-XN T8	DDR4	SKhynix	64GB	SKhynix-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7CJR4N-XN T4	DDR4	SKhynix	64GB	SKhynix-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7CJR4N-XN T8	DDR4	SKhynix	64GB	SKhynix-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7AJR4N-XN T8	DDR4	SKhynix	64GB	SKhynix-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
SATA/SAS HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encription	FW
SATA											
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
ST1000NM0016	SATA	Seagate	3.5"	512e	10TB	6Gb/s	Exos X10 (Enterprise Capacity V.6)	256MB	7200	N/A	
ST14000NM0018	SATA	Seagate	3.5"	512e	14TB	6Gb/s	Exos X14 (Enterprise Capacity)	256MB	7200	N/A	
ST16000NM001G	SATA	Seagate	3.5"	512e/4Kn	16TB	6Gb/s	EXOS X16	256MB	7200	N/A	
MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	Capacity	256MB	7200	N/A	
WU5721010ALE6L4	SATA	WD	3.5"	512e	10TB	6Gb/s	Ultrastar® DC HC330	256MB	7200	N/A	
WU721818ALE6L4	SATA	WD	3.5"	512e	18TB	6Gb/s	Ultrastar DC HC550	512MB	7200	N/A	
SATA/SAS SSD											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
SATA											
SSDSC2K8019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					
SSDSC2K6019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					
MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	3.84TB	6Gb/s					
SSB1K9GTLCG-D2-SME520GBT SME520 Series	SATA	Phison	2.5"	SATA	1.92TB	6Gb/s					
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s					
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s					
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s					
KHK61RS960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s					
M.2											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
M.2											
SSDPELVX010T801 P4511 Series 1TB	M.2	Intel	22110	PCIe(NVMe)	1TB	PCIe Gen3 x4					
MTFDHBA960TDF 960GB 7300 Pro Series	M.2	Micron	2280	PCIe(NVMe)	960GB	PCIe Gen3 x4					
MZ-1L1T9N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	1.92TB	PCIe Gen3 x4					
XPG GAMMIX S70-1TB	M.2	ADATA	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4					
PCIe SSD											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
PCIe											
Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	3.2TB	PCIe Gen3 x8					
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCI-E 3.0	PCIe(NVMe)	4TB	PCIe Gen3 x4					
RAID Card											
Product Name	RAID-on-Chip Controller	Vendor	Host Bus Type	Internal Ports	Internal Connectors	Extrenal Ports	External Connectors	Data Transfer Rate	Note		
GIGABYTE											
CRA3338	LSI SAS 3008	GIGABYTE	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gbit/s per port			

CRA4448	LSI SAS 3108	GIGABYTE	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
CSA3548	LSI SAS 3008	GIGABYTE	PCIe Gen3 x8	-	-	8	2 x Mini-SAS HD SFF-8644	Up to 12Gb/s per port
LSI								
LSI SAS 9400-16i without Tri-mode	SAS3416	LSI	PCIe Gen3 x8	16	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
LSI SAS 9400-8i with Tri-mode	SAS3408	LSI	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
LSI SAS 9500-16e without Tri-mode	SAS3816	LSI	PCIe Gen4 x8	-	-	16	4 x4 SFF-8644	Up to 12Gb/s per port
LSI SAS 9500-16i	SAS3816	LSI	PCIe Gen4 x8	16	2 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port
LSI SAS 9500-8i with Tri-mode	SAS3808	LSI	PCIe Gen4 x8	8	1 x8 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 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port
MegaRAID 9560-8i with Tri-mode	SAS3908 Tri-Mode RAID-on-Chip (ROC)	LSI	PCIe Gen4 x8	8	1 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port
MegaRAID SAS 9440-8i with Tri-mode	SAS3408 I/O controller (IOC)	LSI	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
MegaRAID SAS 9460-16i with Tri-mode	SAS3516 dual-core RAID-on-Chip (ROC)	LSI	PCIe Gen3 x8	8	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
MegaRAID SAS 9460-8i with tri-mode	SAS3508 dual-core RAID-on-Chip (ROC)	LSI	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port
LAN Card								
Product Name	Connector	Vendor	System Interface Type	# of Ports	Data Rate	Note		
Broadcom								
BCM957414A4142CC	SFP28	Broadcom	PCIe Gen3 x8	Dual	25Gb/s per port	BCM57414		
BCM957416A4160C	RJ-45	Broadcom	PCIe Gen3 x8	Dual	10Gb/s per port	BCM5741 (P210TP)		
BCM957508-P2100G	QSFP56	Broadcom	PCIe Gen4 x16	Dual	100Gb/s per port	BCM57508		
LPe32002-M2	SFP+	Broadcom	PCIe Gen3 x8	Dual	32Gb/s per port	XE501 controller		
GIGABYTE								
CLN4224	RJ-45	GIGABYTE	PCIe Gen3 x4	Quad	10Gb/s per port	INTEL XGBE AT2 (Condition)		
CLN4752	QSFP+	GIGABYTE	PCIe Gen3 x8	Dual	40Gb/s per port	INTEL XL710		
CLN4M34	SFP28	GIGABYTE	PCIe Gen3 x16	Quad	10Gb/s per port	Mellanox ConnectX-4 (Condition)		
Intel								
Intel® Ethernet Converged Network Adapter XL710-QD	QSFP+	Intel	PCIe Gen3 x8	Dual	40Gb/s per port			
Intel® Ethernet Network Adapter E810-CQDA2	QSFP28	Intel	PCIe Gen4 x16	Dual	100Gb/s per port			
Intel® Ethernet Network Adapter E810-XXVDA4	SFP28	Intel	PCIe Gen4 x16	Quad	25Gb/s per port			
Intel® Ethernet Network Adapter X722-DA4	SFP+	Intel	PCIe Gen3 x8	Quad	10Gb/s per port			
Intel® Ethernet Network Adapter XXV710-DA2	SFP28	Intel	PCIe Gen3 x8	Dual	25Gb/s per port			
Mellanox								
MCX516A-CCAT	QSFP28	Mellanox	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 EN		
MCX555A-ECAT	QSFP28	Mellanox	PCIe Gen3 x16	Single	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)		
MCX613106A-VDAT	QSFP56	Mellanox	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-5 EN		
MCX623106AN-CDAT	QSFP56	Mellanox	PCIe Gen4 x16	Dual	100Gb/s per port	ConnectX®-6 Dx No Crypto, No Secure Boot		
MCX653105A-ECAT	QSFP56	Mellanox	PCIe Gen4 x16	Single	100Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)		
MCX653106A-HDAT	QSFP56	Mellanox	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)		
Qlogic								
QL45611HLCU	QSFP28	Qlogic	PCIe Gen3 x16	Single	100Gb/s per port			