

C5. Qualification Vender List

Intel CPU

Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types
Alderlake-S (Desktop) i9/i7/i5/i3										
Intel® Core™ i9-12900T	Alderlake-S	QYHN	C-0	30.00MB	10.4 GT/s	16	1.4GHz	4.9 GHz	35W	DDR4-3200
Intel® Core™ i9-12900F	Alderlake-S	QYHJ	C-0	30.00MB	10.4 GT/s	16	2.4GHz	5.1 GHz	65W	DDR4-3200
Intel® Core™ i9-12900K	Alderlake-S	QY5U	C-0	30.00MB	10.4 GT/s	16	3.2GHz	5.2 GHz	125W	DDR4-3200
Intel® Core™ i9-12900	Alderlake-S	QYHH	C-0	30.00MB	10.4 GT/s	16	2.4GHz	5.1 GHz	65W	DDR4-3200
Intel® Core™ i9-12900KF	Alderlake-S	QY5V	C-0	30.00MB	10.4 GT/s	16	3.2GHz	5.2 GHz	125W	DDR4-3200
Intel® Core™ i7-12700K	Alderlake-S	QYHP	C-0	25.00MB	10.4 GT/s	12	3.6GHz	5.0 GHz	125W	DDR4-3200
Intel® Core™ i7-12700	Alderlake-S	QYHR	C-0	25.00MB	10.4 GT/s	12	2.1GHz	4.9 GHz	65W	DDR4-3200
Intel® Core™ i7-12700F	Alderlake-S	QYHS	C-0	25.00MB	10.4 GT/s	12	2.1GHz	4.9 GHz	65W	DDR4-3200
Intel® Core™ i7-12700KF	Alderlake-S	QYHQ	C-0	25.00MB	10.4 GT/s	12	3.6GHz	5.0 GHz	125W	DDR4-3200
Intel® Core™ i7-12700T	Alderlake-S	QYPS	C-0	25.00MB	10.4 GT/s	12	1.4GHz	4.7 GHz	35W	DDR4-3200
Intel® Core™ i5-12600	Alderlake-S	QYVG	H-0	18.00MB	10.4 GT/s	6	3.3GHz	4.8 GHz	65W	DDR4-3200
Intel® Core™ i5-12400T	Alderlake-S	QYVL	H-0	18.00MB	10.4 GT/s	6	1.8GHz	4.6 GHz	35W	DDR4-3200
Intel® Core™ i5-12600T	Alderlake-S	QYVH	H-0	18.00MB	10.4 GT/s	6	2.1GHz	4.6 GHz	35W	DDR4-3200
Intel® Core™ i5-12400F	Alderlake-S	QYXH	C-0	18.00MB	10.4 GT/s	6	2.5GHz	4.4 GHz	65W	DDR4-3200
Intel® Core™ i5-12400	Alderlake-S	QYHW	C-0	18.00MB	10.4 GT/s	6	2.5GHz	4.4 GHz	65W	DDR4-3200
Intel® Core™ i5-12600K	Alderlake-S	QY65	C-0	20.00MB	10.4 GT/s	10	3.7GHz	4.9 GHz	125W	DDR4-3200
Intel® Core™ i5-12600KF	Alderlake-S	QY66	C-0	20.00MB	10.4 GT/s	10	3.7GHz	4.9 GHz	125W	DDR4-3200
Intel® Core™ i3-12100F	Alderlake-S	QYVS	H-0	12.00MB	10.4 GT/s	4	3.3GHz	4.3 GHz	58W	DDR4-3200

Memory (Memory actually maximum frequency will follow memory controller's spec of CPU you used)

Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins
DDR4 ECC UDIMM										
M4C0-4GSSLCRG	DDR4	INNODISK	4GB		1Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
TS512MLH72V1H	DDR4	Transcend	4GB		2Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
78_B1GM4.AF00B	DDR4	Apacer	4GB		2Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
M4C0-8GSSMCRG	DDR4	INNODISK	8GB		1Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
TS1GLH72V1H	DDR4	Transcend	8GB		2Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
M391A1G43DB0-CPB	DDR4	SAMSUNG	8GB		1Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
M391A2K43BB1-CPB	DDR4	SAMSUNG	16GB		2Rx8	1.2V	2133MHz	ECC Unbuffer	15	288-pin
HMA81GU7AFR8N-UH T0 AA 1643	DDR4	Skhynix	8GB		2Rx8	1.2V	2400MHz	ECC Unbuffer	17	288-pin
HMA81GU7AFR8N-UH	DDR4	SKhynix	8GB		2Rx8	1.2V	2400MHz	ECC Unbuffer	17	288-pin
CT8G4WFD824A.18FB1	DDR4	Crucial	8GB		2Rx8	1.2V	2400MHz	ECC Unbuffer	17	288-pin
HMA82GU7AFR8N-UH	DDR4	SKhynix	16GB		2Rx8	1.2V	2400MHz	ECC Unbuffer	17	288-pin
M4C0-AGS1MCSJ	DDR4	Innodisk	16GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
78_C1GSC.4050B	DDR4	Apacer	8GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
KSM26ES8/8ME	DDR4	Kingston	8GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
HMA81GU7CJR8N-VK T0 AC 1820	DDR4	Skhynix	8GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
KSM26ES8/16ME	DDR4	Kingston	16GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
78_D1GSC.4010B	DDR4	Apacer	16GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
HMA82GU7CJR8N-VK T0 AC 1801	DDR4	Skhynix	16GB		2Rx8	1.2V	2666MHz	ECC Unbuffer	19	288-pin
KSM32ES8/8ME	DDR4	Kingston	8GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin
M4C0-8GM1LCEM-D33	DDR4	Innodisk	8GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin
KSM32ED8/16ME	DDR4	Kingston	16GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin

D32.27261S.001	DDR4	Apacer	16GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin
M4C0-AGM1MCEM-D33	DDR4	Innodisk	16GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin
M4C0-BGM2MCEM-D33	DDR4	Innodisk	32GB		2Rx8	1.2V	3200MHz	ECC Unbuffer	22	288-pin

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

DDR4 Non ECC UDIMM

75.B93G2.G000B 4GB UNB	DDR4	Apacer	4GB		1Rx8	1.2V	2133MHz		15	288-pin
CT4G4DFS8213.8FA1 4GB	DDR4	CRUCIAL	4GB		1Rx8	1.2V	2133MHz		15	288-pin
TS512MLH64V1H	DDR4	Transcend	4GB		1Rx8	1.2V	2133MHz		15	288-pin
84G44G93MC-21OMCALGF15T	DDR4	UMAX	4GB		1Rx8	1.2V	2133MHz		15	288-pin
AD4U2133W4G15-BHYM	DDR4	ADATA	4GB		2Rx8	1.2V	2133MHz		15	288-pin
KVR21N15S8/4	DDR4	Kingston	4GB		2Rx8	1.2V	2133MHz		15	288-pin
TS1GLH64V1H	DDR4	Transcend	8GB		2Rx8	1.2V	2133MHz		15	288-pin
78.C1GM3.AF10B 8GB UNB	DDR4	Apacer	8GB		1Rx8	1.2V	2133MHz		15	288-pin
CT8G4DFD8213.16FA1 8GB	DDR4	CRUCIAL	8GB		2Rx8	1.2V	2133MHz		15	288-pin
84G48G93MC-21OMCGNGF15T	DDR4	UMAX	8GB		2Rx8	1.2V	2133MHz		15	288-pin
AD4U2133W8G15-BHYM	DDR4	ADATA	8GB		2Rx8	1.2V	2133MHz		15	288-pin
KVR21N15D8/8	DDR4	Kingston	8GB		1Rx8	1.2V	2133MHz		15	288-pin
KVR24N17S8/8	DDR4	Kingston	8GB		1Rx8	1.2V	2400MHz		17	288-pin
KVR24N17D8/16	DDR4	Kingston	16GB		1Rx8	1.2V	2400MHz		17	288-pin
KVR26N19S8/8	DDR4	Kingston	8GB		2Rx8	1.2V	2666MHz		19	288-pin
CT8G4DFS8266.8FB1	DDR4	CRUCIAL	8GB		2Rx8	1.2V	2666MHz		19	288-pin
KVR26N19D8/16	DDR4	Kingston	16GB		2Rx8	1.2V	2666MHz		19	288-pin
CT16G4DFD8266.16FH1	DDR4	CRUCIAL	16GB		2Rx8	1.2V	2666MHz		19	288-pin
CT32G4DFD8266.16FB1	DDR4	CRUCIAL	32GB		2Rx8	1.2V	2666MHz		19	288-pin
CT8G4DFS832A.C8FJ	DDR4	CRUCIAL	8GB		2Rx8	1.2V	3200MHz		22	288-pin
HMA81GU6DJR8N-XN	DDR4	SKhynix	8GB		2Rx8	1.2V	3200MHz		22	288-pin
CT16G4DFD832A.M16FJ	DDR4	CRUCIAL	16GB		2Rx8	1.2V	3200MHz		22	288-pin
HMA82GU6DJR8N-XN	DDR4	SKhynix	16GB		2Rx8	1.2V	3200MHz		22	288-pin
M4U0-AGM1KCEM-D33	DDR4	Innodisk	16GB		2Rx8	1.2V	3200MHz		22	288-pin
M4U0-BGM2KCEM-D33	DDR4	Innodisk	32GB		2Rx8	1.2V	3200MHz		22	288-pin
M378A4G43AB2-CWE	DDR4	SAMSUNG	32GB		2Rx8	1.2V	3200MHz		22	288-pin

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

HDD (If the system build-in with RAID card ,please refer to RAID card QVL list)

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface	Speed	Series	Cache	RPM	Encryption
Seagate Enterprise Capacity 2.5 HDD											
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s		Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s		Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s		Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A
Seagate Enterprise Capacity 3.5 HDD											
ST10000NM0016	SATA	Seagate	3.5"	512e	10TB	6Gb/s		Exos X10 (Enterprise Capacity)	256MB	7200	N/A
ST2000NM0008	SATA	Seagate	3.5"	512n	2TB	6Gb/s		EXOS 7E2	128MB	7200	N/A
ST14000NM0018	SATA	Seagate	3.5"	512e	14TB	6Gb/s		Exos X14 (Enterprise Capacity)	256MB	7200	N/A
ST8000NM000A	SATA	Seagate	3.5"	512e	8TB	6Gb/s		EXOS 7E8	256MB	7200	N/A
ST10000NM017B	SATA	Seagate	3.5"	512e	10TB	6Gb/s		EXOS 7E10	256MB	7200	N/A
WD Enterprise Hard Drives											
HUH721212ALE604	SATA	HGST / WD	3.5"	512e	12TB	6Gb/s		Ultrastar DC HC520 (He12)	256MB	7200	N/A
WUS721010ALE6L4	SATA	WD	3.5"	512e	10TB	6Gb/s		Ultrastar® DC HC330	256MB	7200	N/A

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

Toshiba Enterprise Hard Drives										
MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	MG07ACA	256MB	7200	N/A
Don't write "Test Items" under this line!!!										
SATA/SAS SSD										
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note		
SATA SSD										
MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	3.84TB	6Gb/s				
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s				
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s				
SSDSC2KG019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s				
SSDSC2KB019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s				
Don't write "Test Items" under this line!!!										
PCIe SSD										
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note			
PCIe SSD										
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCI-E 3.0	PCIe(NVMe)	4TB	PCIe Gen3 x4				
Don't write "Test Items" under this line!!!										
M.2										
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note			
M.2										
SSDPELX010T801 P4511 Series 1TB	M.2	Intel	22110	PCIe(NVMe)	1TB	PCIe Gen3 x4				
SSDPEKKA256G801 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	PCIe Gen3 x4				
MZ-1LB960N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	960GB	PCIe Gen3 x4				
MZ-1LB1T9N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	1.92TB	PCIe Gen3 x4				
EPX-KW960 EPX Series	M.2	LITE-ON	22110	PCIe(NVMe)	960GB	PCIe Gen3 x4				
MTFDHBA800TDG 800GB 7300 Max Series	M.2	Micron	2280	PCIe(NVMe)	800GB	PCIe Gen3 x4				
MTFDHBA960TDF 960GB 7300 Pro Series	M.2	Micron	2280	PCIe(NVMe)	960GB	PCIe Gen3 x4				
CA6-8D1024 CA6 Series	M.2	SSSTC	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4				
AF960GSTJA-YT1 ATP 960GB	M.2	ATP	2280	PCIe(NVMe)	960GB	PCIe Gen3 x4				
Samsung MZVKW512HMJP	M.2	Samsung	2280	PCIe(NVMe)	512GB	PCIe Gen3 x4				
Intel MEMPEK1J032GA (Optane Stony Beach2)	M.2	Intel	2280	PCIe(NVMe)	32GB	PCIe Gen3 x4				
Patriot PH240GPM280SSDR	M.2	Patriot	2280	PCIe(NVMe)	240GB	PCIe Gen3 x4				
Intel 760P 256GB SMI SM2262	M.2	Intel	2280	PCIe(NVMe)	256GB	PCIe Gen3 x4				
Crucial P1 500GB SMI SM2263ENG	M.2	Crucial	2280	PCIe(NVMe)	500GB	PCIe Gen3 x4				
SAMSUNG 970 EVO 250GB	M.2	SAMSUNG	2280	PCIe(NVMe)	250GB	PCIe Gen3 x4				
GIGABYTE AORUS RGB (NVMe) 512GB PHISON PS5012-E12	M.2	GIGABYTE	2280	PCIe(NVMe)	512GB	PCIe Gen3 x4				
ANACOMDA 巨蟒 i1 240GB Realtek RTS5760	M.2	ANACOMDA	2280	PCIe(NVMe)	240GB	PCIe Gen3 x4				
Toshiba XG5 512GB	M.2	Toshiba	2280	PCIe(NVMe)	512GB	PCIe Gen3 x4				
GIGABYTE GP-ASM2NE6100TTTD	M.2	GIGABYTE	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4				
SAMSUNG MZVL2250HCHQ 980 PRO	M.2	SAMSUNG	2280	PCIe(NVMe)	250GB	PCIe Gen4 x4				
WD WDS100T1X0E	M.2	WD	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4				
WD WDS500G1X0E	M.2	WD	2280	PCIe(NVMe)	500GB	PCIe Gen4 x4				
PHISON ESR256GTLCG-EAC4MN	M.2	PHISON	2280	PCIe(NVMe)	256GB	PCIe Gen3 x4				
PHISON ESR512GTLCG-E3C4MN	M.2	PHISON	2280	PCIe(NVMe)	512GB	PCIe Gen3 x4				
PHISON ESR01TBTLCG-EAC4MN	M.2	PHISON	2280	PCIe(NVMe)	1TB	PCIe Gen3 x4				
PHISON ESO1K0GTLCG-E6C4MN	M.2	PHISON	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4				
Intel HBRPEKNX0202A (Intel Optane Memory H10)	M.2	Intel	2280	PCIe(NVMe)	32B+512GB	PCIe Gen3 x4				
PHISON ESR1K0GMFCM-E8C4MN	M.2	PHISON	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4				
GIGABYTE GP-GM30512G-G	M.2	GIGABYTE	2280	PCIe(NVMe)	512GB	PCIe Gen3 x4				
GIGABYTE GP-GM301TB-G	M.2	GIGABYTE	2280	PCIe(NVMe)	1TB	PCIe Gen3 x4				
Don't write "Test Items" under this line!!!										
Graphics Card (GPGPU server & Workstation server only)										
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	VRAM	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note		
NVIDIA Quadro (http://www.nvidia.com/object/quadro-desktop-gpus.html)										
RTX 5000		3072	448GB/s	16GB		230 W				
A5000 (Ampere)		8192	768 GB/s	24GB		230 W				
A6000 (Ampere)		10752	768 GB/s	48GB		300 W				

Don't write "Test Items" under this line!!!										
RAID Cards										
Product Name	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	Note		
GIGABYTE Storage Cards										
CRA3338	LSI SAS 3008	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
CSA3548	LSI SAS 3008	PCIe Gen3 x8	-	-	8	2 x Mini-SAS HD SFF-8644	Up to 12Gb/s per port			
CSA4648	LSI SAS 3008	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
CRA4548	LSI SAS 3108	PCIe Gen3 x8	4	2 x Mini-SAS HD SFF-8643	4	1 x Mini-SAS HD SFF-8644	Up to 12Gb/s per port			
CRA4648	LSI SAS 3108	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
CRA4448	LSI SAS 3108	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
Don't write "Test Items" under this line!!!										
LSI RAID Controller Cards										
MegaRAID SAS 9380-8e	LSISAS3108 dual core RAID on Chip (ROC)	PCIe Gen3 x8	-	-	8	2 x Mini-SAS HD SFF-8644	Up to 12Gb/s per port			
MegaRAID SAS 9361-8i	LSISAS3108 dual core RAID on Chip (ROC)	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
MegaRAID SAS 9440-8i without Tri-mode	SAS3408 I/O controller (IOC)	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
MegaRAID SAS 9460-8i without Tri-mode	SAS3508 dual-core RAID-on-Chip (ROC)	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
MegaRAID SAS 9460-16i without Tri-mode	SAS3516 dual-core RAID-on-Chip (ROC)	PCIe Gen3 x8	8	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
MegaRAID 9560-16i without Tri-mode	SAS3916 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	16	2 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
MegaRAID 9560-8i without Tri-mode	SAS3908 Tri-Mode RAID-on-Chip (ROC)	PCIe Gen4 x8	8	1 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
Don't write "Test Items" under this line!!!										
LSI Host Bus Adapters (HBAs)										
LSI SAS 9500-16i without Tri-mode	SAS3816	PCIe Gen4 x8	16	2 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
LSI SAS 9500-8i without Tri-mode	SAS3808	PCIe Gen4 x8	8	1 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
LSI SAS 9500-16e without Tri-mode	SAS3816	PCIe Gen4	-	-	16	4 x4 SFF-8644	Up to 12Gb/s per port			
Don't write "Test Items" under this line!!!										
LSI NVMe Switch Adapter										
P411W-32P	PEX88048	PCIe Gen4 x16	8 x4, 16 x2, or 32 x1 NVMe SSD	4 x8 SlimSAS SFF-8654	-	-				
Don't write "Test Items" under this line!!!										
PMC RAID Cards (Adaptec)										
Adaptec ASR-81605ZQ	-	PCIe Gen3 x8	16	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
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Microsemi RAID Cards										

SmartRAID 3154-8i	PM8204	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
SmartRAID 3154-16i	PM8236	PCIe Gen3 x8	16	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
Don't write "Test Items" under this line!!!										
Microsemi Host Bus Adapters										
SmartHBA 2100-8i	PM8222	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
HBA 1100-16i	PM8242	PCIe Gen3 x8	16	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
HBA 1100-24i	PM8238	PCIe Gen3 x8	24	6 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
Don't write "Test Items" under this line!!!										
LSI Tri-mode card										
MegaRAID SAS 9440-8i with Tri-mode	SAS3408 I/O controller (IOC)	PCIe Gen3 x8	8	2 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)	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)	PCIe Gen3 x8	8	4 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			
MegaRAID 9560-16i with Tri-mode	SAS3916 Tri-Mode RAID-on-Chip (ROC)	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)	PCIe Gen4 x8	8	1 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
LSI SAS 9500-16i with Tri-mode	SAS3816	PCIe Gen4 x8	16	2 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
LSI SAS 9500-8i with Tri-mode	SAS3808	PCIe Gen4 x8	8	1 x8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			
LSI SAS 9500-16e with Tri-mode	SAS3816	PCIe Gen4	-	-	-	16	4 x4 SFF-8644	Up to 12Gb/s per port		
Don't write "Test Items" under this line!!!										
LAN Cards										
Product Name	Connector	System Interface Type	# of Ports	Data Rate	Note					
GIGABYTE LAN Cards										
CLN4831	SFP+	PCIe Gen2 x8	Single	10Gb/s per port	INTEL 82599EN					
CLN4832	SFP+	PCIe Gen2 x8	Dual	10Gb/s per port	INTEL 82599ES					
CLN4751	QSFP+	PCIe Gen3 x8	Single	40Gb/s per port	INTEL XL710					
CLN4752	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port	INTEL XL710					
CLN4121	RJ-45	PCIe Gen3 x4	Single	10Gb/s per port	INTEL X550-AT					
CLN4222	RJ-45	PCIe Gen3 x4	Dual	10Gb/s per port	INTEL X550-AT2					
CLN4C42	SFP28	PCIe Gen3 x16	Dual	25Gb/s per port	Mellanox ConnectX-4					
CLN4M32	SFP28	PCIe Gen3 x16	Dual	10Gb/s per port	Mellanox ConnectX-4					
CLN4312	RJ-45	PCIe Gen2 x4	Dual	1Gb/s per port	INTEL i350-AM2					
CLN4314	RJ-45	PCIe Gen2 x4	Quad	1Gb/s per port	INTEL i350-AM4					
Don't write "Test Items" under this line!!!										
Intel_10GbE										
Intel® Ethernet Converged Network Adapter X550-T2	RJ-45	PCIe Gen3 x4	Dual	10Gb/s per port						
Intel® Ethernet Converged Network Adapter X520-DA2	SFP+	PCIe Gen2 x8	Dual	10Gb/s per port	This card should be tested in DVT stage when onboard LAN is Intel 82599 chipset					
.										
Intel_25GbE										
Intel® Ethernet Network Adapter XXV710-DA2	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port						

Don't write "Test Items" under this line!!!					
Intel_40GbE					
Intel® Ethernet Converged Network Adapter XL710-QDA2	QSFP+	PCIe Gen3 x8	Dual	40Gb/s per port	
Don't write "Test Items" under this line!!!					
Intel_100GbE					
Intel® Ethernet Network Adapter E810-CQDA2	QSFP28	PCIe Gen4 x16	Dual	100Gb/s per port	
Intel® Ethernet Network Adapter E810-CQDA1	QSFP28	PCIe Gen4 x16	Single	100Gb/s per port	
Don't write "Test Items" under this line!!!					
Mellanox ConnectX					
MCX631102AN-ADAT	SFP28	PCIe Gen4 x8	Dual	25Gb/s per port	ConnectX®-6 Dx without Crypto
MCX623105AN-CDAT	QSFP56	PCIe Gen4 x16	Single	100Gb/s per port	ConnectX®-6 Dx No Crypto, No Secure Boot
MCX623106AN-CDAT	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	ConnectX®-6 Dx No Crypto, No Secure Boot
MCX613106A-VDAT	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 EN
MCX516A-CDAT	QSFP28	PCIe Gen4 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 Ex EN
MCX516A-CCAT	QSFP28	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 EN
MCX515A-CCAT	QSFP28	PCIe Gen3 x16	Single	100Gb/s per port	Mellanox ConnectX-5 EN
MCX512A-ACAT	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Mellanox ConnectX-5 EN
Don't write "Test Items" under this line!!!					
Mellanox VPI Adapter Cards					
MCX653106A-HDAT	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)
MCX653105A-HDAT	QSFP56	PCIe Gen4 x16	Single	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)
MCX653105A-ECAT	QSFP56	PCIe Gen4 x16	Single	100Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)
MCX556A-EDAT	QSFP28	PCIe Gen4 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 Ex VPI (InfiniBand)
MCX555A-ECAT	QSFP28	PCIe Gen3 x16	Single	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)
MCX556A-ECAT	QSFP28	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)
Don't write "Test Items" under this line!!!					
Qlogic LAN Adapters					
QLE2562	Fibre Channe	PCIe Gen2 x8	Dual	8/4/2Gbps auto-negotiation	
QL45611HLCU	QSFP28	PCIe Gen3 x16	Single	100Gb/s per port	
QLE3442-CU-CK	SFP+	PCIe Gen3 x8	Dual	10Gb/s per port	
QLE3442-RJ-CK	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	
QL41212HLCU-SP	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	
QL41132HLCU-SP	SFP28	PCIe Gen3 x8	Dual	10Gb/s per port	
QL41112HLRJ	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	
Don't write "Test Items" under this line!!!					
Broadcom (Emulex) Ethernet Networking Adapters					
BCM957508-P2100G	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port	BCM57508
<u>BCM957412A4120AC</u>	SFP+	PCIe Gen3 x8	Dual	10Gb/s per port	BCM57412
BCM957414A4142CC	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	BCM57414
<u>BCM957416A4160C</u>	RJ-45	PCIe Gen3 x8	Dual	10Gb/s per port	BCM5741 (P210TP)
Don't write "Test Items" under this line!!!					
Broadcom FC Host Bus Adapter					
<u>LPe32002-M2</u>	SFP+	PCIe Gen3 x8	Dual	32Gb/s per port	XE501 controller
Don't write "Test Items" under this line!!!					
PSU					

Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	Note
FSP1200-50AAG	FSP	100~240Vac	1200W	Desktop	N/A	
FSP850-50AAG	FSP	100~240Vac	850W	Desktop	N/A	
FSP600-80PSA	FSP	100~240Vac	600W	Desktop	80Bronze	
SST-ST1000-G	SilverStone	100-240Vac	1000W	Desktop	80Gold	
SF-850F14MG	SUPER FLOWER	100~240Vac	850W	Desktop	80Gold	
SS-1250XM	SeaSonic	100~240Vac	1250W	Desktop	80Gold	
巨龍800SP BTX-800SP 650W	Greatwall	100~240Vac	650W	Desktop	N/A	
黑熊大力士760 EPSPower760 SD-760EPS	黑熊大力士	100~240Vac	760W	Desktop	N/A	
HuntKey航嘉 HK650-11PEP 550W	HuntKey	100~240Vac	550W	Desktop	N/A	
PSM-6600PE/600W	新巨	100~240Vac	600W	Desktop	N/A	

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

USB Device

Product Name	Type	Vendor	Capacity	Note
USB 3.0				
PURE CLASSIC X176B1FWBO75	HDD	Gigabyte	500G	
GoFlex STAA500305	HDD	Seagate	500G	
TOSHIBA CANVIO BASIC	HDD	Toshiba	500G	
NU EBC113	Blue-ray	NU		
NU ESW863 8X SLIM	DVD	NU		
Verico Evolution Lite S 16GB	Flash	Verico	16G	
ADATA SUPERIOR S102 PRO 8GB	Flash	ADATA	8G	
S1-DS3 TURBO	Device	CyberSLIM		
NA317U+	Device	ineo		
SST-TS13	Device	Silver Stone		
S1-DS3-Plus	Device	CyberSLIM		
MB981U3-1S	Device	ICYDOCK		
i310-SB3(6G)	Device	STARDOM		

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

ODD

Product Name	Type	Vendor	Interface	DVD Write Speed (MAX)	CD Write Speed (MAX)	Note
5.25" Internal DVD writer						
iHAS324	ODD	LITEON	SATA	24X	48X	
DVR-S21WBK	ODD	Pioneer	SATA	24X	40X	

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