C5. Qualification Vender List

Attention! You must to enabled BIOS runtime error to monitor correctable and uncorrectable issue during test

Intel CPU

Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types	Remark
Coffeelake-S(E) (Mehlow-Entry Server/Workstation)Xeon E											
Intel® Xeon® E-2286G	QS Coffee Lake-S	QRRS	U-0	12MB		6	4.0 GHz	4.9 GHz	95W	DDR4-2666	
Intel® Xeon® E-2278G	QS Coffee Lake-S	QRXH	R-0	16MB		8	3.4 GHz	5.0 GHz	80W	DDR4-2666	
Intel® Xeon® E-2276G	QS Coffee Lake-S	QRS1	U-0	12MB		6	3.8 GHz	4.9 GHz	80W	DDR4-2666	
Intel® Xeon® E-2274G	QS Coffee Lake-S	QS61	U-0	8MB		4	4.0 GHz	4.9 GHz	83W	DDR4-2666	
Intel® Xeon® E-2246G	QS Coffee Lake-S	QRS2	U-0	12MB		6	3.6 GHz	4.8 GHz	80W	DDR4-2666	
Intel® Xeon® E-2244G	QS Coffee Lake-S	QRWF	U-0	8MB		4	3.8 GHz	4.8 GHz	71W	DDR4-2666	
Intel® Xeon® E-2226G	QS Coffee Lake-S	QRRV	U-0	12MB		6	3.4 GHz	4.7 GHz	80W	DDR4-2666	
Intel® Xeon® E-2224G	QS Coffee Lake-S	QRWD	U-0	8MB		4	3.5 GHz	4.7 GHz	71W	DDR4-2666	
Intel® Xeon® E-2236	QS Coffee Lake-S	QRRW	U-0	12MB		6	3.4 GHz	4.8 GHz	80W	DDR4-2666	
Intel® Xeon® E-2234	QS Coffee Lake-S	QRWE	U-0	8MB		4	3.6 GHz	4.8 GHz	71W	DDR4-2666	
Intel® Xeon® E-2224	QS Coffee Lake-S	QRWC	U-0	8MB		4	3.4 GHz	4.6 GHz	71W	DDR4-2666	
Intel® Xeon® E-2186G	QS Coffee Lake-S	QNT6	U-0	12MB		6	3.8Ghz	4.3Ghz	95W	DDR4-2666	
Intel® Xeon® E-2176G	QS Coffee Lake-S	QNT8	U-0	12MB		6	3.7Ghz	4.3Ghz	80W	DDR4-2666	
Intel® Xeon® E-2174G	QS Coffee Lake-S	QPA0	U-0	8MB		4	3.8Ghz	4.3Ghz	71W	DDR4-2666	
Intel® Xeon® E-2146G	QS Coffee Lake-S	QNT9	U-0	12MB		6	3.5Ghz	4.2Ghz	80W	DDR4-2666	
Intel® Xeon® E-2144G	QS Coffee Lake-S	QP9Z	U-0	8MB		4	3.6Ghz	4.2Ghz	71W	DDR4-2666	
Intel® Xeon® E-2136	QS Coffee Lake-S	QP4C	U-0	12MB		6	3.3Ghz	4.2Ghz	71W	DDR4-2666	
Intel® Xeon® E-2134	QS Coffee Lake-S	QPA1	U-0	8MB		4	3.5Ghz	4.2Ghz	71W	DDR4-2666	
Intel® Xeon® E-2126G	QS Coffee Lake-S	QNTA	U-0	12MB		6	3.3Ghz	4.1Ghz	80W	DDR4-2666	
Intel® Xeon® E-2124G	QS Coffee Lake-S	QP9Y	U-0	8MB		4	3.4Ghz	4.1Ghz	71W	DDR4-2666	
Intel® Xeon® E-2124	QS Coffee Lake-S	QPA2	U-0	8MB		4	3.3Ghz	3.9Ghz	71W	DDR4-2666	
Intel® Xeon® E-2104G	QS Coffee Lake-S	QNTB	U-0	8MB		4	3.2Ghz	3.2 GHz	65W	DDR4-2666	
Coffeelake-S (Desktop) i9/i7/i5/i3/Pentium/Celeron											
Intel® Core™ i7-8700K	QS Coffee Lake-S	QNMK	U-0	12 MB		6	3.70 GHz	4.70 GHz	95 W	DDR4-2666	
Intel® Core™ i7-8700	QS Coffee Lake-S	QNML	U-0	12 MB		6	3.20 GHz	4.60 GHz	65 W	DDR4-2666	
Intel® Core™ i7-8700T	QS Coffee Lake-S	QP4P	U-0	12 MB		6	2.40 GHz	4.00 GHz	35 W	DDR4-2666	
Intel® Core™ i5-9600K	QS Coffee Lake-S	QQPL	P-0	9 MB		6	3.70 GHz	4.60 GHz	95 W	DDR4-2666	
Intel® Core™ i5-9600K	QS Coffee Lake-S	QRNE	R-0	9 MB		6	3.70 GHz	4.60 GHz	95 W	DDR4-2666	
Intel® Core™ i5-8600K	QS Coffee Lake-S	QNMM	U-0	9 MB		6	3.60 GHz	4.30 GHz	95 W	DDR4-2666	
Intel® Core™ i5-9600	QS Coffee Lake-S	QQU4	U-0	9 MB		6	3.10 GHz	4.60 GHz	65 W	DDR4-2666	
Intel® Core™ i5-9500	QS Coffee Lake-S	QQU7	U-0	9 MB		6	3.00 GHz	4.40 GHz	65 W	DDR4-2666	
Intel® Core™ i5-9400	QS Coffee Lake-S	QRNN	R-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	
Intel® Core™ i5-9400	QS Coffee Lake-S	QP6Y	U-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	
Intel® Core™ i5-9400	QS Coffee Lake-S	QQPM	P-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	
Intel® Core™ i5-8600	QS Coffee Lake-S	QP4W	U-0	9 MB		6	3.10 GHz	4.30 GHz	65 W	DDR4-2666	
Intel® Core™ i5-8500	QS Coffee Lake-S	QP5J	U-0	9 MB		6	3.00 GHz	4.10 GHz	65 W	DDR4-2666	
Intel® Core™ i5-8400	QS Coffee Lake-S	QNMN	U-0	9 MB		6	2.80 GHz	4.00 GHz	65 W	DDR4-2666	
Intel® Core™ i5-9600T	QS Coffee Lake-S	QQU5	U-0	9 MB		6	2.30 GHz	3.90 GHz	35 W	DDR4-2666	
Intel® Core™ i5-9500T	QS Coffee Lake-S	QQU6	U-0	9 MB		6	2.20 GHz	3.70 GHz	35 W	DDR4-2666	
Intel® Core™ i5-9400T	QS Coffee Lake-S	QRNR	R-0	9 MB		6	1.80 GHz	3.40 GHz	35 W	DDR4-2666	
Intel® Core™ i5-9400T	QS Coffee Lake-S	QP70	U-0	9 MB		6	1.80 GHz	3.40 GHz	35 W	DDR4-2666	
Intel® Core™ i5-8600T	QS Coffee Lake-S	QP50	U-0	9 MB		6	2.30 GHz	3.70 GHz	35 W	DDR4-2666	
Intel® Core™ i5-8500T	QS Coffee Lake-S	QP5H	U-0	9 MB		6	2.10 GHz	3.50 GHz	35 W	DDR4-2666	
Intel® Core™ i5-8400T	QS Coffee Lake-S	QP52	U-0	9 MB		6	1.70 GHz	3.30 GHz	35 W	DDR4-2666	
Intel® Core™ i3-9350K	QS Coffee Lake-S	QQFU	B-0	8 MB		4	4.00 GHz	4.60 GHz	91 W	DDR4-2400	
Intel® Core™ i3-8350K	QS Coffee Lake-S	QNES	B-0	8 MB		4	4.00 GHz	N/A	91 W	DDR4-2400	
Intel® Core™ i3-9300	QS Coffee Lake-S	QQFV	B-0	8 MB		4	3.70 GHz	4.30 GHz	62 W	DDR4-2400	
Intel® Core™ i3-9100	QS Coffee Lake-S	QQFW	B-0	6 MB		4	3.60 GHz	4.20 GHz	65 W	DDR4-2400	
Intel® Core™ i3-8300	QS Coffee Lake-S	QP5N	B-0	8 MB		4	3.70 GHz	N/A	62 W	DDR4-2400	
Intel® Core™ i3-8100	QS Coffee Lake-S	QNET	B-0	6 MB		4	3.60 GHz	N/A	65 W	DDR4-2400	
Intel® Core™ i3-8100	QS Coffee Lake-S	QN5K	U-0	6 MB		4	3.60 GHz	N/A	65 W	DDR4-2400	
Intel® Core™ i3-9300T	QS Coffee Lake-S	QQFX	B-0	8 MB		4	3.20 GHz	3.80 GHz	35 W	DDR4-2400	
Intel® Core™i3-9100T	QS Coffee Lake-S	QQFY	B-0	6 MB		4	3.10 GHz	3.70 GHz	35 W	DDR4-2400	
Intel® Core™ i3-8300T	QS Coffee Lake-S	QP5P	B-0	8 MB		4	3.20 GHz	N/A	35 W	DDR4-2400	
Intel® Core™ i3-8100T	QS Coffee Lake-S	QP5Q	B-0	6 MB		4	3.10 GHz	N/A	35 W	DDR4-2400	
Intel® Pentium™ G5620	QS Coffee Lake-S	QP7L	B-0	4 MB		2	4.00 GHz	N/A	54 W	DDR4-2400	
Intel® Pentium® G5600	QS Coffee Lake-S	QP5R	B-0	4 MB		2	3.90 GHz	N/A	54 W	DDR4-2400	
Intel® Pentium® G5500	QS Coffee Lake-S	QP5U	B-0	4 MB		2	3.80 GHz	N/A	54 W	DDR4-2400	
Intel® Pentium™ G5420	QS Coffee Lake-S	QP7T	B-0	4 MB		2	3.80 GHz	N/A	54 W	DDR4-2400	
Intel® Pentium™ G5420	QS Coffee Lake-S	QP71	U-0	4 MB		2	3.80 GHz	N/A	58 W	DDR4-2400	
Intel® Pentium® G5400	QS Coffee Lake-S	QP5W	B-0	4 MB		2	3.70 GHz	N/A	54 W	DDR4-2400	
Intel® Pentium® G5400	QS Coffee Lake-S	QP51	U-0	4 MB		2	3.70 GHz	N/A	58 W	DDR4-2400	
Intel® Pentium™ G5600T	QS Coffee Lake-S	QP7M	B-0	4 MB		2	3.30 GHz	N/A	35 W	DDR4-2400	
Intel® Pentium® G5500T	QS Coffee Lake-S	QP5V	B-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	
Intel® Pentium™ G5420T	QS Coffee Lake-S	QP7U	B-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	
Intel® Pentium™ G5420T	QS Coffee Lake-S	QP72	U-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	
Intel® Pentium® G5400T	QS Coffee Lake-S	QP5X	B-0	4 MB		2	3.10 GHz	N/A	35 W	DDR4-2400	

Intel® Pentium® G5400T	QS Coffee Lake-S	QP53	U-0	4 MB		2	3.10 GHz	N/A	35 W	DDR4-2400	
Intel® Celeron™ G4950	QS Coffee Lake-S	QP7W	B-0	2 MB		2	3.30 GHz	N/A	54 W	DDR4-2400	
Intel® Celeron® G4920	QS Coffee Lake-S	QP5Y	B-0	2 MB		2	3.20 GHz	N/A	54 W	DDR4-2400	
Intel® Celeron® G4900	QS Coffee Lake-S	QP9G	B-0	2 MB		2	3.10 GHz	N/A	54 W	DDR4-2400	
Intel® Celeron® G4900T	QS Coffee Lake-S	QP5Z	B-0	2 MB		2	2.90 GHz	N/A	35 W	DDR4-2400	

Don´t write "Test Items" under this line!!!											
Memory											
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
Don´t write "Test Items" under this line!!!											
ECC UDIMM											
M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
78.B1GM4.AF00B	DDR4	Apacer	4GB	SKhynix		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A1G43DB0-CPB	DDR4	SAMSUNG	8GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A2K43BB1-CPB	DDR4	SAMSUNG	16GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
HMA81GU7AFR8N-UH T0 AA 1643	DDR4	Skhynix	8GB	SKhynix	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
HMA81GU7AFR8N-UH T0 AA 1623	DDR4	Skhynix	8GB	SKhynix	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
CT8G4WFD824A.18FB1	DDR4	Crucial	8GB	Micron	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
KVR24E17S8/8MA	DDR4	Kingston	8GB	Micron	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
KVR24E17D8/16MA	DDR4	Kingston	16GB	Micron	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
HMA82GU7AFR8N-UH T0 AC 1626	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
M4C0-AGS1MCSJ	DDR4	Innodisk	16GB	Samsung		1.2v	2400MHz	ECC Unbuffer	17	288-pin	
M4C0-4GSSLCIK-D33	DDR4	Innodisk	4GB	Samsung		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
M4C0-8GS1LCIK-D33	DDR4	Innodisk	8GB	Samsung		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
78.C1GSC.4050B	DDR4	Apacer	8GB	Samsung		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
KSM26ES8/8ME	DDR4	Kingston	8GB	Micron	1Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin	
HMA81GU7CJR8N-VK T0 AC 1820	DDR4	Skhynix	8GB	SKhynix	1Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin	
KSM26ED8/16ME	DDR4	Kingston	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin	
CT16G4WFD8266.18FD1	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin	
78.D1GSC.4010B	DDR4	Apacer	16GB	Samsung		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
M4C0-AGS1MCIK-D33	DDR4	Innodisk	16GB	Samsung		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
HMA82GU7CJR8N-VK T0 AC 1801	DDR4	Skhynix	16GB	Skhynix	2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin	
M44A021	DDR4	Panram	16GB	Panram		1.2v	2666MHz	ECC Unbuffer	19	288-pin	
KSM32ED8/16ME	DDR4	Kingston	16GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	
KSM32ES8/8ME	DDR4	Kingston	8GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	
M4C0-AGS1MCEM-D33	DDR4	innodisk	16GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	
Don´t write "Test Items" under this line!!!											
Non ECC UDIMM											
75.B93G2.G000B 4GB UNB	DDR4	Apacer	4GB	Samsung	1Rx8	1.2v	2133MHz		15	288-pin	
CT4G4DFS8213.8FA1 4GB	DDR4	CRUCIAL	4GB	Micron	1Rx8	1.2v	2133MHz		15	288-pin	
TS512MLH64V1H	DDR4	Transcend	4GB	Samsung	1Rx8	1.2v	2133MHz		15	288-pin	
84G44G93MC-21OMCALGF15T	DDR4	UMAX	4GB	Micron		1.2v	2133MHz		15	288-pin	
AD4U2133W4G15-BHYM	DDR4	ADATA	4GB	SKhynix		1.2v	2133MHz		15	288-pin	
KVR21N15S8/4	DDR4	Kingston	4GB	SKhynix		1.2v	2133MHz		15	288-pin	
TS1GLH64V1H	DDR4	Transcend	8GB	Samsung	2Rx8	1.2v	2133MHz		15	288-pin	
78.C1GM3.AF10B 8GB UNB	DDR4	Apacer	8GB	SKhynix		1.2v	2133MHz		15	288-pin	
CT8G4DFD8213.16FA1 8GB	DDR4	CRUCIAL	8GB	Micron	2Rx8	1.2v	2133MHz		15	288-pin	
AD4U2133W8G15-BHYM	DDR4	ADATA	8GB	SKhynix		1.2v	2133MHz		15	288-pin	
KVR21N15D8/8	DDR4	Kingston	8GB	SKhynix		1.2v	2133MHz		15	288-pin	
KVR24N17S8/8	DDR4	Kingston	8GB	SKhynix		1.2v	2400MHz		17	288-pin	
KVR24N17D8/16	DDR4	Kingston	16GB	Micron		1.2v	2400MHz		17	288-pin	
KVR26N19S8/8	DDR4	Kingston	8GB	Micron		1.2v	2666MHz		19	288-pin	
CT8G4DFS8266.8FB1	DDR4	CRUCIAL	8GB	Micron	1Rx8	1.2v	2666MHz		19	288-pin	
KVR26N19D8/16	DDR4	Kingston	16GB	Micron		1.2v	2666MHz		19	288-pin	
CT16G4DFD8266.16FH1	DDR4	CRUCIAL	16GB	Micron	2Rx8	1.2v	2666MHz		19	288-pin	
M4U0-AGS1KCEM-D33	DDR4	innodisk	16GB			1.2v	3200MHz		22	288-pin	
Don´t write "Test Items" under this line!!!											

Seagate HDD (SAS HDD may need RAID Card support)											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	Note
Seagate Enterprise Capacity 2.5 HDD											
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
ST2000NX0403	SATA	Seagate	2.5"	512n	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
Don´t write "Test Items" under this line!!!											
Seagate Enterprise Capacity 3.5 HDD											
ST8000NM0055	SATA	Seagate	3.5"	512e	8TB	6Gb/s	Exos 7E8 (Enterprise Capacity V.5)	256MB	7200	N/A	
ST10000NM0016	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	FW:SN03
Don´t write "Test Items" under this line!!!											
WD HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	Note
Datacenter											
WD4000FYYZ-01UL1B2	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200	N/A	
WD6001FSYZ-01SS7B0	SATA	WD	3.5"	512e	6TB	6Gb/s	WD Re	128MB	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!!!											
HGST HDD (SAS HDD may need RAID Card support)											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	Note
Enterprise Hard Drives											
HUH721212ALE604	SATA	HGST / WD	3.5"	512e	12TB	6Gb/s	Ultrastar He12	256MB	7200	N/A	
Don´t write "Test Items" under this line!!!											
Toshiba HDD (SAS HDD may need RAID Card support)											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	Note
Enterprise Hard Drives											
MG05ACA800A	SATA	Toshiba	3.5"	4Kn	8TB	6Gb/s	Capacity	128MB	7200	N/A	
MG05ACA800E	SATA	Toshiba	3.5"	512e	8TB	6Gb/s	Capacity	128MB	7200	N/A	
MG03ACA300	SATA	Toshiba	3.5"	512e	3TB	6Gb/s	Capacity	64MB	7200	N/A	
MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A	
MG06ACA10TE	SATA	Toshiba	3.5"	512e	10TB	6Gb/s	Capacity	256MB	7200	N/A	
MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	Capacity	256MB	7200	N/A	FW:0104
Don´t write "Test Items" under this line!!!											
SATA/SAS SSD											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note			
SATA/SAS SSD											
SSDSC2KB480G701 (Series DC S4500)	SSD	Intel	2.5"	SATA	480GB	6Gb/s					
SSDSC2KB960G701 (Series DC S4500)	SSD	Intel	2.5"	SATA	960GB	6Gb/s					
SSDSC2KG960G701(Series DC S4600)	SSD	Intel	2.5"	SATA	960GB	6Gb/s					
SSDSC2KG019T701 (Series DC S4600)	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					
MZ7KM1T9HMJP-0005 (SM863a)	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s					
Micron 5100 MTFDDAK960TBY-1AR1ZABYY	SSD	Micron	2.5"	SATA	960GB	6Gb/s					
MTFDDAK1T9TDN-1AT1ZABYY (5200 MAX)	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					
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s					
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s					
KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	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	-					
Samsung PM1725a MZPLL1T6HEHP PCIe Gen3 x8 1.6TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	1.6TB	-					
Techman XC100C5C-1600 1600GB	PCIe	Techman	PCI-E 3.0	PCIe(NVMe)	1.6TB	-					
Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	3.2TB	Gen3 x8					
Don´t write "Test Items" under this line!!!											
M.2											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
M.2											
SSDPEKKA256G701 P3100 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB						
SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB						
MZVPV128HDGM	M.2	Samsung	2280	PCIe(NVMe)	128GB						
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB						
IM2P33F8-512GD	M.2	ADATA	2280	PCIe(NVMe)	512GB	-					
Don´t write "Test Items" under this line!!!											
SATA DOM											
Product Name	Type	Vendor	Capacity	Flash Type	Max. Channels	Max. Power Consumption	Note				
SATA III											
Innodisk SATADOM-SL 3ME4 DESSL-64GM41BC1SCB	Vertical	INNODISK	64GB	MLC	1	0.734 W					
Innodisk SATADOM-ML 3ME4 DESML-64GM41BCADCB	Vertical	INNODISK	64GB	MLC	2	0.815 W					
Innodisk SATADOM-SH 3ME4 DESSH-64GM41BC1SCB	Horizontal	INNODISK	64GB	MLC	2	1.27 W					
Innodisk SATADOM-SH TYPE C 3ME4 DESSC-64GM41BC1SCB	Horizontal	INNODISK	64GB	MLC	1	0.626 W					
Innodisk SATADOM-SL 3ME4 DESSL-A28M41BCADCB-D33	Vertical	INNODISK	128GB	MLC	1	1.02 W					
Don´t write "Test Items" under this line!!!											
Graphics Card (GPGPU server & Workstation server only)											

Product Name	Processer Cores	Memory Bandwidth (GB/sec)	OpenGL		Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note
Nvida GeForce (http://www.geforce.com/hardware)								
Geforce TITAN XP (Pascal)	3840	547.7 GB/s	4.5		12	250W	Yes (4-way)	
Geforce 1080 Ti	3584	484 GB/s	4.5		12	250W	Yes (4-way)	
Geforce TITAN X (Pascal)	3584	480.5 GB/s	4.5		12	250 W	Yes (4-way)	
GV-N1080NC-8GD GTX1080 G1 Gaming (passive heatsink) (Pascal)	2560	320 GB/s	4.5		12	180 W	Yes (2-way)	
GTX1070 G1 Gaming (passive heatsink) (Pascal)	1920	256 GB/s	4.5		12	150 W	Yes (2-way)	
GTX1060 G1 Gaming (passive heatsink) (Pascal)	1280	192 GB/s	4.5		12	120 W		
GeForce GTX 1080 founders edition (Pascal)	2560	320 GB/s	4.5		12	180 W	Yes (2-way)	
GeForce GTX 1070 founders edition (Pascal)	1920	256 GB/s	4.5		12	150 W	Yes (2-way)	
GeForce GTX 1060 founders edition (Pascal)	1280	192 GB/s	4.5		12	120 W		
GeForce GTX 750	512	80		4.4	11.2	55 W	SLI-Ready	
GeForce GTX 960	1024	112		4.4	12 API	120w		
GeForce GTX 970	1664	224		4.4	12 API	145w		
GeForce GTX 980	2048	224		4.4	12 API	165w		
GeForce GTX 1050Ti	768	112	4.5		12 API	75w		
GeForce GT 740	384	28.8		4.4	12 API	64 W	-	
GeForce GT 730 (DDR3, 128-bit)	96	28.8		4.4	12 API (feature level 11_0)	49 W	-	
GeForce GT 610	48	14.4		4.2	11	29 W	-	
GeForce 210	16	8		3.1	-	30.5 W	-	
Don´t write "Test Items" under this line!!!								

RAID Cards

Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	Note
GIGABYTE Storage Cards								
GC-MSEE4	Marvell 9230	PCIe- x4 Gen2 x4 bus	4	SATA III	-	-	6Gb/s ports	
RA200-8	LSI SAS 2308	PCIe- x8 Gen3 x8 bus	8	2 x Mini-SAS for 8x SAS	-	-	6Gb/s ports	
RA201-A	LSI SAS 2208	PCIe- x8 Gen3 x8 bus	8	2 x Mini-SAS for 8x SAS	-	-	6Gb/s ports	
CRA3338	LSI SAS 3208	PCIe- x8 Gen3 x8 bus	8	2 xMini-SAS HD for 8x SAS	-	-	12Gb/s ports	
CSA3548	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	-	-	8	2 x external Mini-SAS HD SFF8644	12Gb/s ports	
CRA4548	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	4	1 x internal Mini-SAS HD SFF8643	4	1 x external Mini-SAS HD SFF8644	12Gb/s ports	
CRA4448	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports	
Don´t write "Test Items" under this line!!!								
LSI RAID Controller Cards								
MegaRAID SAS 9380-8e	LSISAS3108 dual core RAID on Chip (ROC)	x8 lane PCI Express® 3.0	-	-	8	2 x Mini-SAS HD SFF8644	Up to 12Gb/s per port	
MegaRAID SAS 9341-8i	LSISAS3008 PowerPC 476 controller @ 1.2 GHz	x8 lane PCI Express® 3.0	8	2 x HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port	
MegaRAID SAS 9271-8i	LSISAS2208 Dual-Core RAID on Chip (ROC)	x8 lane PCI Express® 3.0	8	2 x Mini-SAS SFF8087 (side mount)	-	-	Up to 6Gb/s per port	
MegaRAID SAS 9361-8i	LSISAS3108 dual core RAID on Chip (ROC)	x8 lane PCI Express® 3.0	8	2 x HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port	
MegaRAID SAS 9460-16i	SAS3516 dual-core RAID-on-Chip (ROC)	x8 lane PCI Express® 3.1	8	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	
Don´t write "Test Items" under this line!!!								
LSI Host Bus Adapters (HBAs)								
LSI SAS 9300-8e	SAS3008	x8 lane PCI Express® 3.0	-	-	8	2 x mini-SAS HD SFF8644	12Gb/s SAS 3.0 compliant	
LSI SAS 9300-8i	SAS3008	x8 lane PCI Express® 3.0	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0 compliant	
LSI SAS 9400-16i	SAS3416	x8 lane PCI Express® 3.1	16	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	
Don´t write "Test Items" under this line!!!								
PMC RAID Cards (Adaptec)								
Adaptec ASR-8885Q	-	8-lane PCIe Gen3	8	2 x internal mini SAS HD (SFF-8643),	8	2 x external mini SAS HD (SFF-8644)	12Gb/s per port	
Adaptec ASR-81605ZQ	-	8-lane PCIe Gen3	16	4 x internal mini SAS HD (SFF-	-	-	12Gb/s per port	
Don´t write "Test Items" under this line!!!								
Microsemi RAID Cards								
SmartRAID 3154-8i	PM8204	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port	

SmartRAID 3154-16i	PM8236	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port	
Don´t write "Test Items" under this line!!!								
Microsemi Host Bus Adapters								
SmartHBA 2100-8i	PM8222	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port	
HBA 1100-16i	PM8242	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port	
HBA 1100-24i	PM8238	8-Lane PCIe Gen3	24	6 x Internal, SFF-8643	-	-	12 Gb/s per port	
Don´t write "Test Items" under this line!!!								
LAN Cards								
Product Name	Connector	System Interface Type		# of Ports	System Interface Type	Data rate	Note	
GIGABYTE LAN Cards								
CLN4831	SFP+	PCIe x8 Gen2 x8		Single	10Gb/s per port		INTEL 82599EN	
CLN4832	SFP+	PCIe x8 Gen2 x8		Dual	10Gb/s per port		INTEL 82599ES	
CLN4751	QSFP+	PCIe x8 Gen3 x8		Single	40Gb/s per port		INTEL XL710	
CLN4752	QSFP+	PCIe x8 Gen3 x8		Dual	40Gb/s per port		INTEL XL710	
CLN4121	RJ-45	PCIe x8 Gen3 x4		Single	10Gb/s per port		INTEL X550-AT	
CLN4222	RJ-45	PCIe x8 Gen3 x4		Dual	10Gb/s per port		INTEL X550-AT2	
CLN4C42	SFP28	PCIe Gen3 x16		Dual	25Gb/s per port		Mellanox ConnectX-4	
CLN4C44	SFP28	PCIe Gen3 x16		Quad	25Gb/s per port		Mellanox ConnectX-4	
CLN4M34	SFP28	PCIe Gen3 x16		Quad	10Gb/s per port		Mellanox ConnectX-4	
CLN4312	RJ-45	PCIe x4 Gen2 x4		Dual	1Gb/s per port		INTEL i350-AM2	
CLN4314	RJ-45	PCIe x4 Gen2 x4		Quad	1Gb/s per port		INTEL i350-AM4	
GC-MNXE21	SFP+	PCIe x8 Gen3 x8		Dual	10Gb/s per port		Mellanox ConnectX-3	
GC-MLBZ1	SFP+	PCIe x8 Gen2 x8		Dual	10Gb/s per port		Broadcom BCM57810S	
Don´t write "Test Items" under this line!!!								
Intel_10GbE								
Intel® Ethernet Converged Network Adapter X550-T2	RJ-45	PCIe v3.0 (8.0 GT/s)		Dual	10Gb/s per port			
Intel® Ethernet Converged Network Adapter X710-T4	RJ-45	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port			
Intel® Ethernet Converged Network Adapter X710-DA4	SFP+	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port			
Intel® Ethernet Network Adapter X722-DA4	SFP+	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port			
Don´t write "Test Items" under this line!!!								
Intel_25GbE								
Intel® Ethernet Network Adapter XXV710-DA2	SFP28	PCIe v3.0 (8.0 GT/s)		Dual	25Gb/s per port			
Don´t write "Test Items" under this line!!!								
Intel_40GbE								
Intel® Ethernet Converged Network Adapter XL710-QDA2	QSFP+	PCIe v3.0 (8.0 GT/s)		Dual	40Gb/s per port			
Don´t write "Test Items" under this line!!!								
Mellanox ConnectX								
MCX455A-ECAT	QSFP28	PCIe Gen3 x16		Single	100Gb/s per port		Mellanox ConnectX-4 VPI (InfiniBand)	
MCX4121A-ACAT	SFP28	PCIe Gen3 x8		Dual	25Gb/s per port		Mellanox ConnectX-4 Lx 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	
Don´t write "Test Items" under this line!!!								
Mellanox ConnectX®-3 VPI Adapter Cards								
MCB194A-FCAT	QSFP	PCIe 3.0		Dual	FDR IB (56Gb/s)			
MCX354A-FCBT	QSFP	PCIe 3.0		Dual	FDR and 40/56GbE			
MCX555A-ECAT	QSFP28	PCIe 3.0 x16		Single	100Gb/s per port		Mellanox ConnectX-5 VPI (InfiniBand)	
Don´t write "Test Items" under this line!!!								
Solarflare Onload Server Adapters								
SFN7322F	SFP+	8.0GT/s (Gen3)		Dual	10Gb/s per port			
SFN6122F	SFP+	5.0GT/s (Gen2)		Dual	10Gb/s per port			
Don´t write "Test Items" under this line!!!								
Qlogic LAN Adapters								
QL45611HLCU	QSFP28	PCIe x16 Gen3 x16		Single	100Gb/s per port			
QLE3442-CU-CK	SFP+	PCIe x8 Gen3 x8		Dual	10Gb/s per port			
QLE3442-RJ-CK	RJ-45	PCIe x8 Gen3 x8		Dual	10Gb/s per port			
QL41212HLCU-SP	SFP28	PCIe x8 Gen3 x8		Dual	25Gb/s per port			
QL41132HLCU-SP	SFP28	PCIe x8 Gen3 x8		Dual	10Gb/s per port			
QL41112HLRJ	RJ-45	PCIe x8 Gen3 x8		Dual	10Gb/s per port			
Don´t write "Test Items" under this line!!!								
Broadcom (Emulex) Ethernet Networking Adapters								
BCM957414A4142CC	SFP28	PCIe 3.0 x8		Dual	25Gb/s per port		BCM57414	
PSU								
Product Name	Vendor	Input Voltage	Wattage	Application	Effciency	Note		
FSP1200-50AAG	FSP	100~240Vac	1200W	Desktop	N/A			
SS-1250XM	SeaSonic	100~240Vac	1250W	Desktop	80Gold			

GIGA-BYTE TECHNOLOGY CO., LTD.

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	
TOSHIBA CANVIO BASIC	HDD	Toshiba	500G	
Verico Evolution Lite S 16GB	Flash	Verico	16G	
ADATA SUPERIOR S102 PRO 8GB	Flash	ADATA	8G	
NA317U+	Device	ineo		
SST-TS13	Device	Silver Stone		
MB981U3-1S	Device	ICYDOCK		
i310-SB3(6G)	Device	STARDOM		
Don´t write "Test Items" under this line!!!				