C5. Qualification Vender List

Attention! (1)You must to enabled BIOS runtime error to monitor correctable and uncorrectable issue during test
(2)Memory QVL test -> You must to Disable Memory POR(means not follow POR) of BIOS setting to keep maximum frquency of memory speed to test memory

Please contact FAE support for below orange blocks

Intel CPU

	Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types	Processor Graphics
	Coffeelake-S(E) (Mehlow-Entry Server/Workstation)Xeon E											
1	Intel® Xeon® E-2288G	QS Coffee Lake-S	QRJX	R-0	16MB		8	3.7 GHz	5.0 GHz	95W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2286G	QS Coffee Lake-S	QRRS	U-0	12MB		6	4.0 GHz	4.9 GHz	95W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2278G	QS Coffee Lake-S	QRXH	R-0	16MB		8	3.4 GHz	5.0 GHz	80W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2276G	QS Coffee Lake-S	QRS1	U-0	12MB		6	3.8 GHz	4.9 GHz	80W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2274G	QS Coffee Lake-S	QS61	U-0	8MB		4	4.0 GHz	4.9 GHz	83W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2246G	QS Coffee Lake-S	QRS2	U-0	12MB		6	3.6 GHz	4.8 GHz	80W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2244G	QS Coffee Lake-S	QRWF	U-0	8MB		4	3.8 GHz	4.8 GHz	71W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2226G	QS Coffee Lake-S	QRRV	U-0	12MB		6	3.4 GHz	4.7 GHz	80W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2224G	QS Coffee Lake-S	QRWD	U-0	8MB		4	3.5 GHz	4.7 GHz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2236	QS Coffee Lake-S	QRRW	U-0	12MB		6	3.4 GHz	4.8 GHz	80W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2234	QS Coffee Lake-S	QRWE	U-0	8MB		4	3.6 GHz	4.8 GHz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2224	QS Coffee Lake-S	QRWC	U-0	8MB		4	3.4 GHz	4.6 GHz	71W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2186G	QS Coffee Lake-S	QNT6	U-0	12MB		6	3.8 Ghz	4.3Ghz	95W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2176G	QS Coffee Lake-S	QNT8	U-0	12MB		6	3.7 Ghz	4.3Ghz	80W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2174G	QS Coffee Lake-S	QPA0	U-0	8MB		4	3.8 Ghz	4.3Ghz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2146G	QS Coffee Lake-S	QNT9	U-0	12MB		6	3.5 Ghz	4.2Ghz	80W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2144G	QS Coffee Lake-S	QP9Z	U-0	8MB		4	3.6 Ghz	4.2Ghz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2136	QS Coffee Lake-S	QP4C	U-0	12MB		6	3.3 Ghz	4.2Ghz	71W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2134	QS Coffee Lake-S	QPA1	U-0	8MB		4	3.5 Ghz	4.2Ghz	71W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2126G	QS Coffee Lake-S	QNTA	U-0	12MB		6	3.3 Ghz	4.1Ghz	80W	DDR4-2666	Configuration 2
1	Intel® Xeon® E-2124G	QS Coffee Lake-S	QP9Y	U-0	8MB		4	3.4 Ghz	4.1Ghz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2124	QS Coffee Lake-S	QPA2	U-0	8MB		4	3.3 Ghz	3.9Ghz	71W	DDR4-2666	Configuration 1
1	Intel® Xeon® E-2104G	QS Coffee Lake-S	QNTB	U-0	8MB		4	3.2 Ghz	3.2 GHz	65W	DDR4-2666	Configuration 1
	Coffeelake-S (Desktop) i9/i7/i5/i3/Pentium/Celeron											
1	Intel® Core™ i9-9900K	QS Coffee Lake-S	QQPP	P-0	16 MB		8	3.60 GHz	5.00 GHz	95 W	DDR4-2666	Configuration 1
1	Intel® Core™ i9-9900T	QS Coffee Lake-S	QRNA	R-0	16 MB		8	2.10 GHz	4.40 GHz	35 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-9700K	QS Coffee Lake-S	QQPK	P-0	12 MB		8	3.60 GHz	4.90 GHz	95 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-9700K	QS Coffee Lake-S	QRNB	R-0	12 MB		8	3.60 GHz	4.90 GHz	95 W	DDR4-2666	Configuration 1
1	Intel® Core™ i7-8700K	QS Coffee Lake-S	QNMK	U-0	12 MB		6	3.70 GHz	4.70 GHz	95 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-9700	QS Coffee Lake-S	QRNH	R-0	12 MB		8	3.00 GHz	4.70 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-8700	QS Coffee Lake-S	QNML	U-0	12 MB		6	3.20 GHz	4.60 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-9700T	QS Coffee Lake-S	QRNL	R-0	12 MB		8	2.00 GHz	4.30 GHz	35 W	DDR4-2666	Configuration 1
1	Intel® Core™ I7-8700T	QS Coffee Lake-S	QP4P	U-0	12 MB		6	2.40 GHz	4.00 GHz	35 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-9600K	QS Coffee Lake-S	QQPL	P-0	9 MB		6	3.70 GHz	4.60 GHz	95 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9600K	QS Coffee Lake-S	QRNE	R-0	9 MB		6	3.70 GHz	4.60 GHz	95 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-8600K	QS Coffee Lake-S	QNMM	U-0	9 MB		6	3.60 GHz	4.30 GHz	95 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9600	QS Coffee Lake-S	QQU4	U-0	9 MB		6	3.10 GHz	4.60 GHz	65 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9500	QS Coffee Lake-S	QQU7	U-0	9 MB		6	3.00 GHz	4.40 GHz	65 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9400	QS Coffee Lake-S	QRNN	R-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9400	QS Coffee Lake-S	QP6Y	U-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-9400	QS Coffee Lake-S	QQPM	P-0	9 MB		6	2.90 GHz	4.10 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-8600	QS Coffee Lake-S	QP4W	U-0	9 MB		6	3.10 GHz	4.30 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-8500	QS Coffee Lake-S	QP5J	U-0	9 MB		6	3.00 GHz	4.10 GHz	65 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-8400	QS Coffee Lake-S	QNMN	U-0	9 MB		6	2.80 GHz	4.00 GHz	65 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9600T	QS Coffee Lake-S	QQU5	U-0	9 MB		6	2.30 GHz	3.90 GHz	35 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-9500T	QS Coffee Lake-S	QQU6	U-0	9 MB		6	2.20 GHz	3.70 GHz	35 W	DDR4-2666	Configuration 1
1	Intel® Core™ i5-9400T	QS Coffee Lake-S	QRNR	R-0	9 MB		6	1.80 GHz	3.40 GHz	35 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-9400T	QS Coffee Lake-S	QP70	U-0	9 MB		6	1.80 GHz	3.40 GHz	35 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-8600T	QS Coffee Lake-S	QP50	U-0	9 MB		6	2.30 GHz	3.70 GHz	35 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-8500T	QS Coffee Lake-S	QP5H	U-0	9 MB		6	2.10 GHz	3.50 GHz	35 W	DDR4-2666	Configuration 2
1	Intel® Core™ i5-8400T	QS Coffee Lake-S	QP52	U-0	9 MB		6	1.70 GHz	3.30 GHz	35 W	DDR4-2666	Configuration 2
1	Intel® Core™ i3-9350K	QS Coffee Lake-S	QQFU	B-0	8 MB		4	4.00 GHz	4.60 GHz	91 W	DDR4-2400	Configuration 2
1	Intel® Core™ i3-8350K	QS Coffee Lake-S	QNES	B-0	8 MB		4	4.00 GHz	N/A	91 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-9300	QS Coffee Lake-S	QQFV	B-0	8 MB		4	3.70 GHz	4.30 GHz	62 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-9100	QS Coffee Lake-S	QQFW	B-0	6 MB		4	3.60 GHz	4.20 GHz	65 W	DDR4-2400	Configuration 2
1	Intel® Core™ i3-8300	QS Coffee Lake-S	QP5N	B-0	8 MB		4	3.70 GHz	N/A	62 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-8100	QS Coffee Lake-S	QNET	B-0	6 MB		4	3.60 GHz	N/A	65 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-8100	QS Coffee Lake-S	QN5K	U-0	6 MB		4	3.60 GHz	N/A	65 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-9300T	QS Coffee Lake-S	QQFX	B-0	8 MB		4	3.20 GHz	3.80 GHz	35 W	DDR4-2400	Configuration 1
1	Intel® Core™i3-9100T	QS Coffee Lake-S	QQFY	B-0	6 MB		4	3.10 GHz	3.70 GHz	35 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-8300T	QS Coffee Lake-S	QP5P	B-0	8 MB		4	3.20 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Core™ i3-8100T	QS Coffee Lake-S	QP5Q	B-0	6 MB		4	3.10 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5620	QS Coffee Lake-S	QP7L	B-0	4 MB		2	4.00 GHz	N/A	54 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5600	QS Coffee Lake-S	QP5R	B-0	4 MB		2	3.90 GHz	N/A	54 W	DDR4-2400	Configuration 2
1	Intel® Pentium™ G5500	QS Coffee Lake-S	QP5U	B-0	4 MB		2	3.80 GHz	N/A	54 W	DDR4-2400	Configuration 2
1	Intel® Pentium™ G5420	QS Coffee Lake-S	QP7T	B-0	4 MB		2	3.80 GHz	N/A	54 W	DDR4-2400	Configuration 2
1	Intel® Pentium™ G5420	QS Coffee Lake-S	QP71	U-0	4 MB		2	3.80 GHz	N/A	58 W	DDR4-2400	Configuration 2
1	Intel® Pentium™ G5400	QS Coffee Lake-S	QP5W	B-0	4 MB		2	3.70 GHz	N/A	54 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5400	QS Coffee Lake-S	QP51	U-0	4 MB		2	3.70 GHz	N/A	58 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5600T	QS Coffee Lake-S	QP7M	B-0	4 MB		2	3.30 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5500T	QS Coffee Lake-S	QP5V	B-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5420T	QS Coffee Lake-S	QP7U	B-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5420T	QS Coffee Lake-S	QP72	U-0	4 MB		2	3.20 GHz	N/A	35 W	DDR4-2400	Configuration 1

1	Intel® Pentium™ G5400T	QS Coffee Lake-S	QP5X	B-0	4 MB		2	3.10 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Pentium™ G5400T	QS Coffee Lake-S	QP53	U-0	4 MB		2	3.10 GHz	N/A	35 W	DDR4-2400	Configuration 1
1	Intel® Celeron™ G4950	QS Coffee Lake-S	QP7W	B-0	2 MB		2	3.30 GHz	N/A	54 W	DDR4-2400	Configuration 1
1	Intel® Celeron™ G4920	QS Coffee Lake-S	QP5Y	B-0	2 MB		2	3.20 GHz	N/A	54 W	DDR4-2400	Configuration 1
1	Intel® Celeron™ G4900	QS Coffee Lake-S	QP9G	B-0	2 MB		2	3.10 GHz	N/A	54 W	DDR4-2400	Configuration 1
1	Intel® Celeron™ G4900T	QS Coffee Lake-S	QP5Z	B-0	2 MB		2	2.90 GHz	N/A	35 W	DDR4-2400	Configuration 1

	ECC UDIMM											
	M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 1
	M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 2
	TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 2
	TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 2
	78.B1GM4.AF00B	DDR4	Apacer	4GB	SKhynix	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 2
	M391A1G43DB0-CPB	DDR4	SAMSUNG	8GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 2
	M391A2K43BB1-CPB	DDR4	SAMSUNG	16GB	Samsung	2Rx8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	Configuration 1
	CT8G4WFD824A.18FB1	DDR4	Crucial	8GB	Micron	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 1
	KVR24E17S8/8MA	DDR4	Kingston	8GB	Micron	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 1
	KVR24E17D8/16MA	DDR4	Kingston	16GB	Micron	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 1
	HMA81GU7AFR8N-UH	DDR4	SKhynix	8GB	SKhynix	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 1
	HMA82GU7AFR8N-UH	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 1
	M4C0-AGS1MCSJ	DDR4	Innodisk	16GB	Samsung		1.2v	2400MHz	ECC Unbuffer	17	288-pin	Configuration 2
	CT16G4WFD8266-2G6D1.001	DDR4	CRUCIAL	16GB	CRUCIAL		1.2v	2666MHz	ECC Unbuffer	19	288-pin	Configuration 2
	M44A021	DDR4	Panram	16GB	Panram		1.2v	2666MHz	ECC Unbuffer	19	288-pin	Configuration 2
	KSM32ED8/16ME	DDR4	Kingston	16GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	Configuration 1
	KSM32ES8/8ME	DDR4	Kingston	8GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	Configuration 2
	M4C0-AGS1MCEM-D33	DDR4	innodisk	16GB			1.2v	3200MHz	ECC Unbuffer	22	288-pin	Configuration 2
	Non ECC UDIMM											
2	M4C0-AGS1MCSJ	DDR4	Kingston	8GB		2R	1.2v	2133MHz		15	288-pin	Configuration 2
1	M4U0-AGS1KCEM-D33	DDR4	innodisk	16GB			1.2v	3200MHz		22	288-pin	Configuration 2
	Seagate HDD (SAS HDD may need RAID Card support)											
	Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
	Seagate Enterprise Capacity 2.5 HDD											
2	ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	Configuration 1
1	ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	Configuration 1
2	ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	Configuration 1
	Seagate Enterprise Capacity 3.5 HDD											
1	ST10000NM0016	SATA	Seagate	3.5"	512e	10TB	6Gb/s	Exos X10 (Enterprise Capacity V.6)	256MB	7200	N/A	Configuration 1
1	ST14000NM0018	SATA	Seagate	3.5"	512e	14TB	6Gb/s	Exos X14 (Enterprise Capacity)	256MB	7200	N/A	Configuration 1
1	ST16000NM001G	SATA	Seagate	3.5"	512e/4Kn	16TB	6Gb/s	EXOS X16	256MB	7200	N/A	Configuration 1
	WD 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											
2	WD4000FYYZ-01UL1B2	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200	N/A	Configuration 1
2	WD6001FSYZ-01SS7B0	SATA	WD	3.5"	512e	6TB	6Gb/s	WD Re	128MB	7200	N/A	Configuration 1
2	HUH721212ALE604	SATA	HGST / WD	3.5"	512e	12TB	6Gb/s	Ultrastar DC HC520 (He12)	256MB	7200	N/A	Configuration 1
1	WUS721010ALE6L4	SATA	WD	3.5"	512e	10TB	6Gb/s	Ultrastar® DC HC330	256MB	7200	N/A	Configuration 1
	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											
2	MG04ACA600E	SATA	Toshiba	3.5"	512e	6TB	6Gb/s	Capacity	128MB	7200	N/A	Configuration 1
2	MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A	Configuration 1
2	MG06ACA10TE	SATA	Toshiba	3.5"	512e	10TB	6Gb/s	Capacity	256MB	7200	N/A	Configuration 1
1	MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	Capacity	256MB	7200	N/A	Configuration 1
	SATA/SAS SSD											
	Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note			
	SATA/SAS SSD											
2	MTFDDAK1T9TDC-1AT1ZABYY (5200 ECO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
2	MTFDDAK1T9TDD-1AT1ZABYY (5200 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
1	MTFDDAK1T9TDN-1AT1ZABYY (5200 MAX)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
1	MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
1	SSDSC2KG019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
1	SSDSC2KB019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
1	XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s					Configuration 1
	XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s					Configuration 1
2	SRE100-960G00210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s					Configuration 1
	SRE100-480G00210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s					Configuration 1
2	SEDC500M/3840G DC500M Series	SSD	Kingston	2.5"	SATA	3.84TB	6Gb/s					Configuration 1
	SEDC500M/1920G DC500M Series	SSD	Kingston	2.5"	SATA	1.92TB	6Gb/s					Configuration 1
2	SEDC500M/960G DC500M Series	SSD	Kingston	2.5"	SATA	960GB	6Gb/s					Configuration 1
	SEDC500M/480G DC500M Series	SSD	Kingston	2.5"	SATA	480GB	6Gb/s					Configuration 1
1	KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s					Configuration 1

	PCIe SSD											
	Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
	PCIe SSD											
1	SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCI-E 3.0	PCIe(NVMe)	4TB	Gen3 x4					Configuration 1
2	Samsung PM1725a MZPLL1T6HEHP PCIe Gen3 x8 1.6TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	1.6TB	Gen3 x8					Configuration 1
1	Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	3.2TB	Gen3 x8					Configuration 1
2	Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB	PCIe	Netlist	PCI-E 3.0	PCIe(NVMe)	3.2TB	Gen3 x8					Configuration 1
	M.2											
	Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
	M.2											
2	SSDPEKKA256G801 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	-					Configuration 1
2	SSDPEKKA256G701 P3100 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	-					Configuration 1
2	SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB	-					Configuration 1
2	MZVFV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB	-					Configuration 1
2	AF960GSTJA-YT1 ATP 960GB	M.2	ATP	2280	PCIe(NVMe)	960GB	-					Configuration 1
2	MTFDHBA800TDG 800GB 7300 Max Series	M.2	Micron	2280	PCIe(NVMe)	800GB	-					Configuration 1
1	MTFDHBA960TDF 960GB 7300 Pro Series	M.2	Micron	2280	PCIe(NVMe)	960GB	-					Configuration 1
2	IM2P33F8-256GD	M.2	ADATA	2280	PCIe(NVMe)	256GB	-					Configuration 1
1	IM2P33F8-512GD	M.2	ADATA	2280	PCIe(NVMe)	512GB	-					Configuration 1

	SATA DOM											
	Product Name	Type	Vendor	Capacity	Flash Type	Max. Channels	Max. Power Consumption	Note				
	SATA III											
1	Innodisk SATADOM-SL 3ME4 DESSL-64GM41BC1SCB	Vertical	INNODISK	64GB	MLC	1	0.734 W					Configuration 1
1	Innodisk SATADOM-SL 3ME4 DESSL-A28M41BCADCB-D33	Vertical	INNODISK	128GB	MLC	1	1.02 W					Configuration 1
1	Innodisk SATADOM-ML 3ME4 DESML-64GM41BCADCB	Vertical	INNODISK	64GB	MLC	2	0.815 W					Configuration 1
1	Innodisk SATADOM-SH 3ME4 DESSH-64GM41BC1SCB	Horizontal	INNODISK	64GB	MLC	2	1.27 W					Configuration 1
1	Innodisk SATADOM-SH TYPE C 3ME4 DESSC-64GM41BC1SCB	Horizontal	INNODISK	64GB	MLC	1	0.626 W					Configuration 1
	Graphics Card (GPGPU server & Workstation server only)											
	Product Name	Processer 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 6000 Active	4608	624GB/s	24GB			260 W					Configuration 1
	RTX 8000 Active	4608	624GB/s	48GB			260 W					Configuration 1
	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											
1	CRA3338	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	8	2 xMini-SAS HD for 8x SAS	-	-	12Gb/s ports				Configuration 2
1	CSA3548	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	-	-	8	2 x external Mini-SAS HD SFF8644	12Gb/s ports				Configuration 2
2	CSA4648	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports				Configuration 2
2	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				Configuration 2
2	CRA4648	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports				Configuration 2
1	CRA4448	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports				Configuration 2
	LSI RAID Controller Cards											
2	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				Configuration 2
3	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				Configuration 2
2	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	卡都被外借			Configuration 2
2	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				Configuration 2
2	MegaRAID SAS 9440-8i	SAS3408 I/O controller (IOC)	x8 lane PCI Express® 3.1	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0				Configuration 2
1	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				Configuration 2
	LSI Host Bus Adapters (HBAs)											
2	LSI SAS 9300-8e	SAS3008	x8 lane PCI Express® 3.0	-	-	8	2 x mini-SAS HD SFF8644	12Gb/s SAS 3.0				Configuration 2
2	LSI SAS 9300-8i	SAS3008	x8 lane PCI Express® 3.0	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0				Configuration 2
2	LSI SAS 9400-8i	SAS3408	x8 lane PCI Express® 3.1	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0				Configuration 2
1	LSI SAS 9400-16i	SAS3416	x8 lane PCI Express® 3.1	16	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0				Configuration 2
	PMC RAID Cards (Adaptec)											
2	Adaptec ASR-81605ZQ	-	8-lane PCIe Gen3	16	4 x internal mini SAS HD (SFF-8643)	-	-	12Gb/s per port				Configuration 2
	Microsemi RAID Cards											
2	SmartRAID 3154-8i	PM8204	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port				Configuration 2
1	SmartRAID 3154-16i	PM8236	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port				Configuration 2
	Microsemi Host Bus Adapters											
1	SmartHBA 2100-8i	PM8222	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port				Configuration 2
2	HBA 1100-16i	PM8242	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port				Configuration 2
2	HBA 1100-24i	PM8238	8-Lane PCIe Gen3	24	6 x Internal, SFF-8643	-	-	12 Gb/s per port				Configuration 2
	Microsemi Expander Card											
	LAN Cards											
	Product Name	Connector	System Interface Type	# of Ports	Data Rate	Note						
	GIGABYTE LAN Cards											
2	CLN4831	SFP+	PCIe x8 Gen2 x8	Single	10Gb/s per port	INTEL 82599EN						Configuration 1
2	CLN4832	SFP+	PCIe x8 Gen2 x8	Dual	10Gb/s per port	INTEL 82599ES						Configuration 2
2	CLN4751	QSFP+	PCIe x8 Gen3 x8	Single	40Gb/s per port	INTEL XL710						Configuration 2
1	CLN4752	QSFP+	PCIe x8 Gen3 x8	Dual	40Gb/s per port	INTEL XL710						Configuration 2
2	CLN4121	RJ-45	PCIe x8 Gen3 x4	Single	10Gb/s per port	INTEL X550-AT						Configuration 2
2	CLN4222	RJ-45	PCIe x8 Gen3 x4	Dual	10Gb/s per port	INTEL X550-AT2						Configuration 2
2	CLN4C42	SFP28	PCIe Gen3 x16	Dual	25Gb/s per port	Mellanox ConnectX-4						Configuration 1
2	CLN4C44	SFP28	PCIe Gen3 x16	Quad	25Gb/s per port	Mellanox ConnectX-4						Configuration 1
1	CLN4M34	SFP28	PCIe Gen3 x16	Quad	10Gb/s per port	Mellanox ConnectX-4						Configuration 1
2	CLN4M32	SFP28	PCIe Gen3 x16	Dual	10Gb/s per port	Mellanox ConnectX-4						Configuration 2
2	CLN4312	RJ-45	PCIe x4 Gen2 x4	Dual	1Gb/s per port	INTEL i350-AM2						Configuration 1
2	CLN4314	RJ-45	PCIe x4 Gen2 x4	Quad	1Gb/s per port	INTEL i350-AM4						Configuration 2

	Intel_10GbE											
2	Intel® Ethernet Converged Network Adapter X550-T2	RJ-45	PCIe v3.0 (8.0 GT/s)	Dual	10Gb/s per port							Configuration 2
2	Intel® Ethernet Converged Network Adapter X520-DA2	SFP+	PCIe v2.0 (5.0GT/s)	Dual	10Gb/s per port	This card should be tested in DVT stage when onboard LAN is Intel 82599 chipset						Configuration 1
2	Intel® Ethernet Converged Network Adapter X710-T4	RJ-45	PCIe v3.0 (8.0 GT/s)	Quad	10Gb/s per port							Configuration 2
2	Intel® Ethernet Converged Network Adapter X710-DA4	SFP+	PCIe v3.0 (8.0 GT/s)	Quad	10Gb/s per port							Configuration 1
1	Intel® Ethernet Network Adapter X722-DA4	SFP+	PCIe v3.0 (8.0 GT/s)	Quad	10Gb/s per port							Configuration 2
	Intel_25GbE											
1	Intel® Ethernet Network Adapter XXV710-DA2	SFP28	PCIe v3.0 (8.0 GT/s)	Dual	25Gb/s per port							Configuration 2
	Intel_40GbE											
1	Intel® Ethernet Converged Network Adapter XL710-QDA2	QSFP+	PCIe v3.0 (8.0 GT/s)	Dual	40Gb/s per port							Configuration 1
	Mellanox ConnectX											
1	MCX516A-CCAT	QSFP28	PCIe Gen3 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 EN						Configuration 2
1	MCX515A-CCAT	QSFP28	PCIe Gen3 x16	Single	100Gb/s per port	Mellanox ConnectX-5 EN						Configuration 1
1	MCX4121A-ACAT	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port	Mellanox ConnectX-4 Lx EN						Configuration 2
	Mellanox VPI Adapter Cards											
1	MCX555A-ECAT	QSFP28	PCIe 3.0 x16	Single	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)						Configuration 2
2	MCX556A-ECAT	QSFP28	PCIe 3.0 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)						Configuration 1
2	MCX456A-ECAT	QSFP28	PCIe 3.0 x16	Dual	100Gb/s per port	Mellanox ConnectX-4 VPI (InfiniBand)						Configuration 2
2	MCX354A-FCBT	QSFP	PCIe 3.0	Dual	FDR and 40/56GbE							Configuration 2
	Qlogic LAN Adapters											
1	QL45611HLCU	QSFP28	PCIe x16 Gen3 x16	Single	100Gb/s per port							Configuration 2
2	QLE3442-CU-CK	SFP+	PCIe x8 Gen3 x8	Dual	10Gb/s per port							Configuration 2
1	QLE3442-RJ-CK	RJ-45	PCIe x8 Gen3 x8	Dual	10Gb/s per port							Configuration 1
2	QL45212-HLCU	SFP28	PCIe x8 Gen3 x8	Dual	25Gb/s per port							Configuration 1
2	QL45412HLCU-CK	QSFP+	PCIe x16 Gen3 x16	Dual	40Gb/s per port							Configuration 2
2	QL41212HLCU-SP	SFP28	PCIe x8 Gen3 x8	Dual	25Gb/s per port							Configuration 2
2	QL41132HLCU-SP	SFP28	PCIe x8 Gen3 x8	Dual	10Gb/s per port							Configuration 1
2	QL41112HLRJ	RJ-45	PCIe x8 Gen3 x8	Dual	10Gb/s per port							Configuration 2
	Broadcom (Emulex) Ethernet Networking Adapters											
2	BCM957412A4120AC	SFP+	PCIe 3.0 x8	Dual	10Gb/s per port	BCM57412						Configuration 2
1	BCM957414A4142CC	SFP28	PCIe 3.0 x8	Dual	25Gb/s per port	BCM57414						Configuration 2
1	BCM957416A4160C	RJ-45	PCIe 3.0 x8	Dual	10Gb/s per port	BCM5741 (P210TP)						Configuration 2
	PSU											
	Product Name	Vendor	Input Voltage	Wattage	Application	Effciency	Note					
1	FSP1200-50AAG	FSP	100~240Vac	1200W	Desktop	N/A						Configuration 1
1	FSP850-50AAG	FSP	100~240Vac	850W	Desktop	N/A						Configuration 1
2	FSP600-80PSA	FSP	100~240Vac	600W	Desktop	80Bronze						Configuration 1
2	EVEREST 85plus 600W	FSP	100~240Vac	600W	Desktop	80Gold						Configuration 1
1	SST-ST1000-G	SilverStone	100-240Vac	1000W	Desktop	80Gold						Configuration 2
2	SF-850F14MG	SUPER FLOWER	100~240Vac	850W	Desktop	80Gold						Configuration 2
1	SS-1250XM	SeaSonic	100~240Vac	1250W	Desktop	80Gold						Configuration 2
2	冒險800SP BTX-800SP 650W	Greatwall	100~240Vac	650W	Desktop	N/A						Configuration 2
2	黑旋大力士750 EPSpower750 SD-760EPS	黑旋大力士	100~240Vac	760W	Desktop	N/A						Configuration 1
2	HuntKey航嘉 HK650-11PEP 550W	HuntKey	100~240Vac	550W	Desktop	N/A						Configuration 1
2	PSM-6600PE/600W	新巨	100~240Vac	600W	Desktop	N/A						Configuration 1
	USB Device											
	Product Name	Type	Vendor	Capacity	Note							
	USB 3.0											
1	PURE CLASSIC X176B1FWBO75	HDD	Gigabyte	500G								Configuration 2
1	GoFlex STAA500305	HDD	Seagate	500G								Configuration 2
1	TOSHIBA CANVIO BASIC	HDD	Toshiba	500G								Configuration 2
2	NU EBC113	Blue-ray	NU									Configuration 2
2	NU ESW863 8X SLIM	DVD	NU									Configuration 2
2	Verico Evolution Lite S 16GB	Flash	Verico	16G								Configuration 2
2	ADATA SUPERIOR S102 PRO 8GB	Flash	ADATA	8G								Configuration 2
1	NA317U+	Device	ineo									Configuration 1
1	SST-TS13	Device	Silver Stone									Configuration 1
1	S1-DS3-Plus	Device	CyberSLIM									Configuration 1
1	MB981U3-1S	Device	ICYDOCK									Configuration 1
1	310-SB3(6G)	Device	STARDOM									Configuration 1
	ODD											
	Product Name	Type	Vendor	Interface	DVD Write Speed (MAX)	CD Write Speed (MAX)	Note					
	5.25" Internal DVD writer											
1	iHAS324	ODD	LITEON	SATA	24X	48X						Configuration 2
1	DVR-S21WBK	ODD	Pioneer	SATA	24X	40X						Configuration 2