

"G190-G30" Qualification Vender List - Others Ver: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	Processor Graphics
Intel® Xeon® Processor E5-2600v4 series											
Intel® Xeon® Processor E5-2603 v4	Broadwell-EP	Q KEV	R0	15MB	6.4 GT/s	6	1.7 GHz	None	85W	DDR4-1866	None
Intel® Xeon® Processor E5-2608L v4	Broadwell-EP	Q KF4	R0	20MB	6.4 GT/s	8	1.6 GHz	1.7 GHz	50W	DDR4-1866	None
Intel® Xeon® Processor E5-2609 v4	Broadwell-EP	Q KEW	R0	20MB	6.4 GT/s	8	1.7 GHz	None	85W	DDR4-1866	None
Intel® Xeon® Processor E5-2618L v4	Broadwell-EP	Q KF9	R0	25MB	8 GT/s	10	2.2 GHz	3.2 GHz	75W	DDR4-2133	None
Intel® Xeon® Processor E5-2620 v4	Broadwell-EP	Q KES	R0	20MB	8 GT/s	8	2.1 GHz	3 GHz	85W	DDR4-2133	None
Intel® Xeon® Processor E5-2623 v4	Broadwell-EP	Q KFD	R0	10MB	8 GT/s	4	2.6 GHz	3.2 GHz	85W	DDR4-2133	None
Intel® Xeon® Processor E5-2628L v4	Broadwell-EP	Q K9B	M0	30MB	8 GT/s	12	1.9 GHz	2.4 GHz	75W	DDR4-2133	None
Intel® Xeon® Processor E5-2630L v4	Broadwell-EP	Q KEX	R0	25MB	8 GT/s	10	1.8 GHz	2.9 GHz	55W	DDR4-2133	None
Intel® Xeon® Processor E5-2630 v4	Broadwell-EP	Q KET	R0	25MB	8 GT/s	10	2.2 GHz	3.1 GHz	85W	DDR4-2133	None
Intel® Xeon® Processor E5-2637 v4	Broadwell-EP	Q KEY	R0	15MB	9.6 GT/s	4	3.5 GHz	3.7 GHz	135W	DDR4-2400	None
Intel® Xeon® Processor E5-2640 v4	Broadwell-EP	Q KEU	R0	25MB	8 GT/s	10	2.4 GHz	3.4 GHz	90W	DDR4-2133	None
Intel® Xeon® Processor E5-2643 v4	Broadwell-EP	Q KEZ	R0	20MB	9.6 GT/s	6	3.4 GHz	3.7 GHz	135W	DDR4-2400	None
Intel® Xeon® Processor E5-2648L v4	Broadwell-EP	Q K9C	M0	35MB	9.6 GT/s	14	1.8 GHz	2.5 GHz	75W	DDR4-2400	None
Intel® Xeon® Processor E5-2650L v4	Broadwell-EP	Q K93	M0	35MB	9.6 GT/s	14	1.7 GHz	2.5 GHz	65W	DDR4-2400	None
Intel® Xeon® Processor E5-2650 v4	Broadwell-EP	Q K8Y	M0	30MB	9.6 GT/s	12	2.2 GHz	2.9 GHz	105W	DDR4-2400	None
Intel® Xeon® Processor E5-2658 v4	Broadwell-EP	Q K9A	M0	35MB	9.6 GT/s	14	2.3 GHz	2.8 GHz	105W	DDR4-2400	None
Intel® Xeon® Processor E5-2660 v4	Broadwell-EP	Q K8Z	M0	35MB	9.6 GT/s	14	2.0 GHz	3.2 GHz	105W	DDR4-2400	None
Intel® Xeon® Processor E5-2667 v4	Broadwell-EP	Q KF0	R0	25MB	9.6 GT/s	8	3.2 GHz	3.6 GHz	135W	DDR4-2400	None
Intel® Xeon® Processor E5-2680 v4	Broadwell-EP	Q K92	M0	35MB	9.6 GT/s	14	2.4 GHz	3.3 GHz	120W	DDR4-2400	None
Intel® Xeon® Processor E5-2683 v4	Broadwell-EP	Q K7K	B0	40MB	9.6 GT/s	16	2.1 GHz	3 GHz	120W	DDR4-2400	None
Intel® Xeon® Processor E5-2687W v4	Broadwell-EP	Q K99	M0	30MB	9.6 GT/s	12	3.0 GHz	3.5 GHz	160W	DDR4-2400	None
Intel® Xeon® Processor E5-2689 v4	Broadwell-EP	Q K7Z	B0	25MB	9.6 GT/s	10	3.1 GHz	3.8 GHz	165W	DDR4-2400	None
Intel® Xeon® Processor E5-2690 v4	Broadwell-EP	Q K8X	M0	35MB	9.6 GT/s	14	2.6 GHz	3.5 GHz	135W	DDR4-2400	None
Intel® Xeon® Processor E5-2695 v4	Broadwell-EP	Q K3E	B0	45MB	9.6 GT/s	18	2.1 GHz	3.3 GHz	120W	DDR4-2400	None
Intel® Xeon® Processor E5-2697 v4	Broadwell-EP	Q K7L	B0	45MB	9.6 GT/s	18	2.3 GHz	3.6 GHz	145W	DDR4-2400	None
Intel® Xeon® Processor E5-2697A v4	Broadwell-EP	Q K7S	B0	40MB	9.6 GT/s	16	2.6 GHz	3.6 GHz	145W	DDR4-2400	None
Intel® Xeon® Processor E5-2698 v4	Broadwell-EP	Q K7M	B0	50MB	9.6 GT/s	20	2.2 GHz	3.6 GHz	135W	DDR4-2400	None
Intel® Xeon® Processor E5-2699 v4	Broadwell-EP	Q K7J	B0	55MB	9.6 GT/s	22	2.2 GHz	3.6 GHz	145W	DDR4-2400	None
Memory											
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
RDIMM											
HMA82GR7AFR8N-UHT2	DDR4	SK Hynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC Registered	17	288-pin	
HMA84GR7AFR4N-UHTD	DDR4	SK Hynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	
HMA84GR7AFR4N-UHT2	DDR4	SK Hynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	
CT16G4RFS424A.18FA1	DDR4	Crucial	16GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA18ASF2G72PZ-2G3A1	DDR4	Micron	16GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
CT32G4RFD424A.36FB1	DDR4	Crucial	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA36ASF4G72PZ-2G3B1	DDR4	Micron	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
CT32G4RFD424A-2G3B1	DDR4	Crucial	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above

CT8G4RFS424A.18FB1	DDR4	Crucial	8GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA18ASF1G72PZ-2G3B1	DDR4	Micron	8GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
CT8G4RFS824A.2G3B1	DDR4	Crucial	8GB	Micron	1R X8	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA9ASF1G72PZ-2G3B1	DDR4	Micron	8GB	Micron	1R X8	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
M4R0-BGS3GCSJ	DDR4	INNODISK	32GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
M393A4K40BB1-CRC0Q	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
VP9MR4G7224JBJSB	DDR4	Viking	32GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above

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											
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	Just test this HDD to cover
ST2000NX0283	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	Same as above
ST2000NX0303	SATA	Seagate	2.5"	4Kn	1TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	Same as above
ST2000NX0343	SATA	Seagate	2.5"	4Kn	1TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	Same as above

Seagate Enterprise Performance 15K HDD (SAS HDD may need RAID Card support)

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		
SSDSC2KG960G701 (Series DC S4600)	SSD	Intel	2.5"	SATA	960GB	6Gb/s		
Micron 5100 MTFDDAK960TBY-1AR1ZABYY	SSD	Micron	2.5"	SATA	960GB	6Gb/s		

GPGPU Card (GPGPU server only)

NvidiaTesla (<http://www.nvidia.com/object/tesla-supercomputing-solutions.html>)

P100 (Pascal)	3584	732 GB/s	-	-	250 W	-	Maximum support 4pcs GPGPU
V100	5120	900 GB/s	-	-	300 W	-	Maximum support 4pcs GPGPU

LAN Cards

Product Name	Connector	System Interface Type	# of Ports	System Interface Type	Data rate	Note
GIGABYTE LAN Cards						
GC-MNXE21	SFP+	PCIe x8 Gen3 x8	Dual	10Gb/s per port	Mellanox ConnectX-3	
Intel_10GbE						
Intel® Ethernet Converged Network Adapter X710-DA4	SFP+	PCIe v3.0 (8.0 GT/s)	Quad	10Gb/s per port		
Solarflare Onload Server Adapters						
SFN7322F	SFP+	8.0GT/s (Gen3)	Dual	10Gb/s per port		
Broadcom (Emulex) Ethernet Networking Adapters						
OCe14102-NX	SFP+	PCIe 3.0 x8	Dual	10Gb/s per port		

USB Device

Product Name	Type	Vendor	Capacity	Note
USB 3.0				
GoFlex STAA500305	HDD	Seagate	500G	

i310-SB3(6G)	Device	STARDOM		
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