

"T180-G20" 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	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
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RDIMM

CT16G4RFD824A.18FB1	DDR4	Crucial	16GB	Micron	2R X8	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA18ASF2G72PDZ-2G3B1	DDR4	Micron	16GB	Micron	2R X8	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

CT16G4RFD424A.36FB1	DDR4	Crucial	16GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA36ASF2G72PZ-2G3B1	DDR4	Micron	16GB	Micron	2R X4	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
SATA/SAS SSD											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note			
SATA/SAS SSD											
Micron 5100 MTFDDAK9601BY.1AR1ZABYY	SSD	Micron	2.5"	SATA	960GB	6Gb/s					
U.2											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note				
U.2											
MTFDHAL3T2MCE	U.2	Micron	2.5"	SFF 8639 (NVMe)	3.2TB						
GPGPU Card (GPGPU server only)											
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	OpenGL		Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note			
NvidaTesla (http://www.nvidia.com/object/tesla-supercomputing-solutions.html)											
P100 (Pascal)	3584	732 GB/s				250 W					
ATI Desktop Workstations											
V100	5120	900 GB/s				300 W					
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											
CRA4448	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643			12Gb/s ports				
LAN Cards											
Product Name	Connector	System Interface Type		# of Ports	System Interface Type	Data rate	Note				
GIGABYTE LAN Cards											
CLN4832	SFP+	PCIe x8 Gen2 x8		Dual		10Gb/s per port	INTEL 82599ES				
Intel_GbE											
Intel® Ethernet Server Adapter I350-T4	RJ-45	PCIe v2.1 (5.0GT/s)		Quad		1Gb/s per port					
USB Device											
Product Name	Type	Vendor	Capacity	Note							
USB 3.0											
GoFlex STAA500305	HDD	Seagate	500G								
i310-SB3(6G)	Device	STARDOM									