

"R121-340 Qualification Vender List Ver:2.0										
Intel CPU										
Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types
Intel® Xeon® Processor E3-1220v6	KabyLake-S	QKHR	B0	6MB	8 GT/s	4	3.0 GHz	3.5 GHz	72W	DDR4-2400
Intel® Xeon® Processor E3-1225v6	KabyLake-S	QKHN	B0	6MB	8 GT/s	4	3.3 GHz	3.7 GHz	73W	DDR4-2400
Intel® Xeon® Processor E3-1230v6	KabyLake-S	QKHV	B0	6MB	8 GT/s	4	3.5 GHz	3.9 GHz	72W	DDR4-2400
Intel® Xeon® Processor E3-1240v6	KabyLake-S	QKHU	B0	6MB	8 GT/s	4	3.7GHz	4.1 GHz	72W	DDR4-2400
Intel® Xeon® Processor E3-1245v6	KabyLake-S	QKHQ	B0	6MB	8 GT/s	4	3.7GHz	4.1 GHz	73W	DDR4-2400
Intel® Xeon® Processor E3-1270v6	KabyLake-S	QKHT	B0	6MB	8 GT/s	4	3.8 GHz	4.2 GHz	72W	DDR4-2400
Intel® Xeon® Processor E3-1275v6	KabyLake-S	QKHP	B0	6MB	8 GT/s	4	3.8 GHz	4.2 GHz	73W	DDR4-2400
Intel® Xeon® Processor E3-1280v6	KabyLake-S	QKHS	B0	6MB	8 GT/s	4	3.9GHz	4.2 GHz	72W	DDR4-2400
7th Generation Intel® Core™ i7/i5 Processors series (UDIMM ECC memory support only)										
Intel® Core™ i5-7400 Processor (6M Cache, 3.50 GHz)	KabyLake-DT	QKZQ	B0	6 MB	8 GT/s	4	3.0 GHz	3.5 GHz	65 W	DDR4-2400
Intel® Core™ i5-7400T Processor (6M Cache, 3.00 GHz)	KabyLake-DT	QKHH	B0	6 MB	8 GT/s	4	2.4 GHz	3.0 GHz	35 W	DDR4-2400
Intel® Core™ i5-7500 Processor (6M Cache, 3.80 GHz)	KabyLake-DT	QKHC	B0	6 MB	8 GT/s	4	3.4 GHz	3.8 GHz	65 W	DDR4-2400
Intel® Core™ i5-7500T Processor (6M Cache, 3.30 GHz)	KabyLake-DT	QKHG	B0	6 MB	8 GT/s	4	2.7 GHz	3.3 GHz	35 W	DDR4-2400
Intel® Core™ i5-7600 Processor (6M Cache, 4.10 GHz)	KabyLake-DT	QKHB	B0	6 MB	8 GT/s	4	3.5 GHz	4.1 GHz	65 W	DDR4-2400
Intel® Core™ i5-7600T Processor (6M Cache, 3.70 GHz)	KabyLake-DT	QKHF	B0	6 MB	8 GT/s	4	2.8 GHz	3.7 GHz	35 W	DDR4-2400
Intel® Core™ i5-7600K Processor (6M Cache, 4.20 GHz)	KabyLake-DT	QKH9	B0	6 MB	8 GT/s	4	3.8 GHz	4.2 GHz	91 W	DDR4-2400
Intel® Core™ i7-7700 Processor (8M Cache, 4.20 GHz)	KabyLake-DT	QKHA	B0	8 MB	8 GT/s	4	3.6 GHz	4.2 GHz	65 W	DDR4-2400
Intel® Core™ i7-7700T Processor (8M Cache, 3.80 GHz)	KabyLake-DT	QKHE	B0	8 MB	8 GT/s	4	2.9 GHz	3.8 GHz	35 W	DDR4-2400
Intel® Core™ i7-7700K Processor (8M Cache, 4.50 GHz)	KabyLake-DT	QKH8	B0	8 MB	8 GT/s	4	4.2 GHz	4.5 GHz	91 W	DDR4-2400
7th Generation Intel® Core™ i3/Pentium/Celeron Processors (UDIMM ECC memory support only)										
Intel® Core™ i3-7300 Processor (4M Cache, 4.00 GHz)	KabyLake-DT	QL35	S0	4 MB	8 GT/s	2	4.0 GHz	None	51 W	DDR4-2400
Intel® Core™ i3-7300T Processor (4M Cache, 3.50 GHz)	KabyLake-DT	QL3M	S0	4 MB	8 GT/s	2	3.5 GHz	None	35 W	DDR4-2400
Intel® Core™ i3-7320 Processor (4M Cache, 4.10 GHz)	KabyLake-DT	QL34	S0	4 MB	8 GT/s	2	4.1 GHz	None	51 W	DDR4-2400
Intel® Core™ i3-7100 Processor (3M Cache, 3.90 GHz)	KabyLake-DT	QL38	S0	3 MB	8 GT/s	2	3.9 GHz	None	51 W	DDR4-2400
Intel® Core™ i3-7100T Processor (3M Cache, 3.40 GHz)	KabyLake-DT	QL3P	S0	3 MB	8 GT/s	2	3.4 GHz	None	35 W	DDR4-2400
Intel® Pentium® Processor G4620 (3M Cache, 3.70 GHz)	KabyLake-DT	QL3A	S0	3 MB	8 GT/s	2	3.7 GHz	None	51 W	DDR4-2400
Intel® Pentium® Processor G4600 (3M Cache, 3.60 GHz)	KabyLake-DT	QL3B	S0	3 MB	8 GT/s	2	3.6 GHz	None	51 W	DDR4-2400
Intel® Pentium® Processor G4600T (3M Cache, 3.00 GHz)	KabyLake-DT	QL3R	S0	3 MB	8 GT/s	2	3.0 GHz	None	35 W	DDR4-2400
Intel® Pentium® Processor G4560 (3M Cache, 3.50 GHz)	KabyLake-DT	QKZZ	B0	3 MB	8 GT/s	2	3.5 GHz	None	54 W	DDR4-2400
Intel® Pentium® Processor G4560T (3M Cache, 2.90 GHz)	KabyLake-DT	QL3T	S0	3 MB	8 GT/s	2	2.9 GHz	None	35 W	DDR4-2400
Intel® Celeron® Processor G3930 (2M Cache, 2.90 GHz)	KabyLake-DT	QL3H	S0	2 MB	8 GT/s	2	2.9 GHz	None	51W	DDR4-2133
Intel® Celeron® Processor G3930T (2M Cache, 2.70 GHz)	KabyLake-DT	QL3V	S0	2 MB	8 GT/s	2	2.7 GHz	None	35 W	DDR4-2133
Intel® Celeron® Processor G3950 (2M Cache, 3.00 GHz)	KabyLake-DT	QL3G	S0	2 MB	8 GT/s	2	3.0 GHz	None	51 W	DDR4-2133
Intel® Xeon® Processor E3-1200v5 series										
Intel® Xeon® Processor E3-1220v5	SKYLAKE-S	Q JFX	R0	8MB	8 GT/s	4	3.0 GHz	3.5 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1225v5	SKYLAKE-S	SR2CS	R0	8MB	8 GT/s	4	3.3 GHz	3.7 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1230v5	SKYLAKE-S	Q J79	R0	8MB	8 GT/s	4	3.4 GHz	3.8 GHz	80W	DDR4-2133

Intel® Xeon® Processor E3-1235Lv5	SKyLAKE-S	SR2CV	RO	8MB	8 GT/s	4	2.0 GHz	3.0 GHz	25W	DDR4-2133
Intel® Xeon® Processor E3-1240Lv5	SKyLAKE-S	Q JHG	RO	8MB	8 GT/s	4	2.1 GHz	3.2 GHz	25W	DDR4-2133
Intel® Xeon® Processor E3-1240v5	SKyLAKE-S	Q J78	RO	8MB	8 GT/s	4	3.5 GHz	3.9 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1245v5	SKyLAKE-S	SR2CU	RO	8MB	8 GT/s	4	3.5 GHz	3.9 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1260Lv5	SKyLAKE-S	Q JGT	RO	8MB	8 GT/s	4	2.9 GHz	3.9 GHz	45W	DDR4-2133
Intel® Xeon® Processor E3-1270v5	SKyLAKE-S	Q J7A	RO	8MB	8 GT/s	4	3.6 GHz	4.0 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1275v5	SKyLAKE-S	SR2CT	RO	8MB	8 GT/s	4	3.6 GHz	4.0 GHz	80W	DDR4-2133
Intel® Xeon® Processor E3-1280v5	SKyLAKE-S	Q JHF	RO	8MB	8 GT/s	4	3.7 GHz	4.0 GHz	80W	DDR4-2133
6th Generation Intel® Core™ i7/i5 Processors series (UDIMM ECC memory support only)										
Intel® Core™ i5-6400 Processor (6M Cache, 3.30 GHz)	SKyLAKE-DT	QJEH	RO	6 MB	8 GT/s	4	2.7 GHz	3.3 GHz	65 W	DDR4-2133
Intel® Core™ i5-6400T Processor (6M Cache, 2.80 GHz)	SKyLAKE-DT	QJE7	RO	6 MB	8 GT/s	4	2.2 GHz	2.8 GHz	35 W	DDR4-2133
Intel® Core™ i5-6500 Processor (6M Cache, 3.60 GHz)	SKyLAKE-DT	QJEF	RO	6 MB	8 GT/s	4	3.2 GHz	3.6 GHz	65 W	DDR4-2133
Intel® Core™ i5-6500T Processor (6M Cache, 3.10 GHz)	SKyLAKE-DT	QJEJ	RO	6 MB	8 GT/s	4	2.5 GHz	3.1 GHz	35 W	DDR4-2133
Intel® Core™ i5-6600 Processor (6M Cache, 3.90 GHz)	SKyLAKE-DT	QJEE	RO	6 MB	8 GT/s	4	3.3 GHz	3.9 GHz	65 W	DDR4-2133
Intel® Core™ i5-6600T Processor (6M Cache, 3.50 GHz)	SKyLAKE-DT	QJEK	RO	6 MB	8 GT/s	4	2.7 GHz	3.5 GHz	35 W	DDR4-2133
Intel® Core™ i5-6600K Processor (6M Cache, 3.90 GHz)	SKyLAKE-DT	QJEC	RO	6 MB	8 GT/s	4	3.5 GHz	3.9 GHz	91 W	DDR4-2133
Intel® Core™ i7-6700 Processor (8M Cache, 4.00 GHz)	SKyLAKE-DT	QJE9	RO	8 MB	8 GT/s	4	3.4 GHz	4.0 GHz	65 W	DDR4-2133
Intel® Core™ i7-6700T Processor (8M Cache, 3.60 GHz)	SKyLAKE-DT	QJEB	RO	8 MB	8 GT/s	4	2.8 GHz	3.6 GHz	35 W	DDR4-2133
Intel® Core™ i7-6700K Processor (8M Cache, 4.20 GHz)	SKyLAKE-DT	QJE6	RO	8 MB	8 GT/s	4	4.0 GHz	4.2 GHz	91 W	DDR4-2133
6th Generation Intel® Core™ i3/Pentium/Celeron Processors (UDIMM ECC memory support only)										
Intel® Core™ i3-6300 Processor (4M Cache, 3.80 GHz)	SKyLAKE-DT	QJZ9	S0	4 MB	8 GT/s	2	3.8 GHz	None	51 W	DDR4-2133
Intel® Core™ i3-6300T Processor (4M Cache, 3.30 GHz)	SKyLAKE-DT	QJZC	S0	4 MB	8 GT/s	2	3.3 GHz	None	35 W	DDR4-2133
Intel® Core™ i3-6320 Processor (4M Cache, 3.90 GHz)	SKyLAKE-DT	QJZ8	S0	4 MB	8 GT/s	2	3.9 GHz	None	51 W	DDR4-2133
Intel® Core™ i3-6100 Processor (3M Cache, 3.70 GHz)	SKyLAKE-DT	QJZG	S0	3 MB	8 GT/s	2	3.7 GHz	None	51 W	DDR4-2133
Intel® Core™ i3-6100T Processor (3M Cache, 3.20 GHz)	SKyLAKE-DT	QJZE	S0	3 MB	8 GT/s	2	3.2 GHz	None	35 W	DDR4-2133
Intel® Pentium® Processor G4520 (3M Cache, 3.60 GHz)	SKyLAKE-DT	QJZM	S0	3 MB	8 GT/s	2	3.6 GHz	None	51 W	DDR4-2133
Intel® Pentium® Processor G4500T (3M Cache, 3.00 GHz)	SKyLAKE-DT	QK1A	S0	3 MB	8 GT/s	2	3 GHz	None	35 W	DDR4-2133
Intel® Pentium® Processor G4500 (3M Cache, 3.50 GHz)	SKyLAKE-DT	QJZJ	S0	3 MB	8 GT/s	2	3.5 GHz	None	51 W	DDR4-2133
Intel® Pentium® Processor G4400 (3M Cache, 3.30 GHz)	SKyLAKE-DT	QJZK	S0	3 MB	8 GT/s	2	3.3 GHz	None	54 W	DDR4-2133
Intel® Pentium® Processor G4400T (3M Cache, 2.90 GHz)	SKyLAKE-DT	QJZQ	S0	3 MB	8 GT/s	2	2.9 GHz	None	35 W	DDR4-2133
Intel® Celeron® Processor G3900 (2M Cache, 2.80 GHz)	SKyLAKE-DT	QJZU	S0	2 MB	8 GT/s	2	2.8 GHz	None	51W	DDR4-2133
Intel® Celeron® Processor G3900T (2M Cache, 2.60 GHz)	SKyLAKE-DT	QJZS	S0	2 MB	8 GT/s	2	2.6 GHz	None	35 W	DDR4-2133
Intel® Celeron® Processor G3920 (2M Cache, 2.90 GHz)	SKyLAKE-DT	QJZW	S0	2 MB	8 GT/s	2	2.8 GHz	None	51 W	DDR4-2133
Memory										
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins
ECC UDIMM										
M4C0-AGS1MCSJ	DDR4	INNODISK	16GB			1.2v	2400MHz	ECC Unbuffer		288-pin
M4C0-8GSSMCSJ	DDR4	INNODISK	8GB			1.2v	2400MHz	ECC Unbuffer		204-pin
M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin

M4C0-4GSSLCSJ	DDR4	INNODISK	4GB		1R	1.2v	2400MHz	ECC Unbuffer		
M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin
TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin
TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin
78.B1GM4.AF00B	DDR4	Apacer	4GB	SKhynix	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M391A1G43DB0-CPB	DDR4	SAMSUNG	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin
M391A2K43BB1-CPB	DDR4	SAMSUNG	16GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin
CT8G4WFD824A.18FB1	DDR4	Crucial	8GB	Micron	2R	1.2v	2400MHz	ECC Unbuffer	17	288-pin
64GB	DDR4	Kingston	8GB	Micron	1R	1.2v	2400MHz	ECC Unbuffer	17	288-pin
KVR24E17S8/4	DDR4	Kingston	4GB			1.2v	2400MHz	ECC Unbuffer	17	288-pin
KVR24E17D8/16MA	DDR4	Kingston	16GB	Micron	2R	1.2v	2400MHz	ECC Unbuffer	17	288-pin
AD4U2400316G17-B	DDR4	ADATA	16GB			1.2v	2400MHz	ECC Unbuffer	17	288-pin
HMA81GU7AFR8N-UH	DDR4	SKhynix	8GB	SKhynix	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
HMA82GU7AFR8N-UH	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin
KVR24E17S8/8MA	DDR4	Kingston	8GB	Micron	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin

Seagate HDD (SAS HDD may need RAID Card support)

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
Seagate Enterprise Capacity 2.5 HDD										
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A
ST2000NX0403	SATA	Seagate	2.5"	512n	2TB	6Gb/s	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
Seagate Enterprise Capacity 3.5 HDD										
ST10000NM0146	SATA	Seagate	3.5"	4Kn	10TB	6Gb/s	Enterprise Capacity V.6	256MB	7200	N/A
ST8000NM0045	SATA	Seagate	3.5"	4Kn	8TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A
ST2000NM0055	SATA	Seagate	3.5"	512n	2TB	6Gb/s	Enterprise Capacity V.5	128MB	7200	N/A
ST900MP0146	SAS	Seagate	2.5"	4Kn/512e	900GB	12Gb/s	Exos 10E900 (Enterprise)	256MB	15000	N/A

WD HDD

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
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Datacenter										
WD XE WD9001BKHG	SAS	WD	2.5		900GB			32MB	10000	
HGST HDD (SAS HDD may need RAID Card support)										
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
Enterprise Hard Drives										
HUH728080ALE604	SATA	HGST	3.5"	512e	8TB	6Gb/s	Ultrastar He8	128MB	7200	N/A
HUS726060ALE610	SATA	HGST	3.5"	512e	6TB	6Gb/s	Ultrastar 7K6000	128MB	7200	N/A
HUH721212ALE604	SATA	HGST	3.5"	512e	12TB	6Gb/s	Ultrastar He12	256MB	7200	N/A
Toshiba HDD										
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
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
MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A
MG03ACA300	SATA	Toshiba	3.5"	512e	3TB	6Gb/s	Capacity	128MB	7200	N/A
MG03ACA100	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	64MB	7200	N/A
Msata										
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Note			
MZMTD128HAFV-00000	Msata	Samsung	-	mini PCIe	128GB	6 Gb/s				
THNSNH128GMCT	Msata	Toshiba	-	mini PCIe	128GB	6 Gb/s				
SATA DOM										
Product Name	Type	Vendor	Capacity	Flash Type	Max. Channels	Max. Power Consumption	Note			
SATA III										
Innodisk SATADOM-SH 3ME4 DESSH-64GM41BC1SCB 64Gb	Horizontal	INNODISK	64GB	MLC	1	0.945A (5V x 189mA)				
DESSL-64GD72SCADNA (SATADOM™-SL 3ME2)	Vertical	INNODISK	64GB	MLC	2	0.8 W				
Innodisk SATADOM-ML 3ME4 DESML-64GM41BCADCB	Vertical	INNODISK	64GB	MLC	2	0.815 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										
GC-MSLZ2	LSI SAS 2008	PCIe- x8 Gen2 x8 bus	8	2 x Mini-SAS for 8x SAS	-	-	6Gb/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			
CSA3548	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	-	-	8	2 x external Mini-SAS HD SFF8644	12Gb/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 x Mini-SAS HD for 8x SAS	-	-	12Gb/s ports	
CRA4448	LSI SAS 3108	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD	-	-	12Gb/s ports	
LSI RAID Controller Cards								
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	
LAN Cards								
Product Name	Connector	System Interface Type	# of Ports	System Interface Type	Data rate	Note		
Intel_GbE								
Intel® Ethernet Server Adapter I350-T2	RJ-45	PCIe v2.1 (5.0GT/s)	Dual	1Gb/s per port				
Intel PRO/1000PT Server Adapter	RJ-45		Single	1Gb/s per port				
CLN4222	RJ-45	PCIe x4 Gen3 x4	Dual	10Gb/s per port				
CLN4832	SFP+	PCIe x8 Gen2 x8	Dual	10Gb/s per port		INTEL 82599ES		
CLN4121	RJ-45	PCIe x4 Gen3 x4	single	10Gb/s per port				
CLN4312	RJ-45	PCIe x4 Gen2 x4	Dual	1Gb/s per port		INTEL i350-AM4		
GC-MLBZ1	SFP+	PCIe x8 Gen2 x8	Dual	10Gb/s per port		Broadcom BCM57810S		
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 c		