

S451-Z30 Qualification Vendor List Ver:1.5

AMD CPU												
Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores/Threads	Processor Base Freq (GHz)	All Cores Boost Max Freq (GHz)	Processor Boost Max Freq (GHz)	TDP	Memory Types	Processor Graphics	
Naples												
AMD 7351 PS7351BEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.40	2.90	2.90 / 2	155W	DDR4-2400/2666	None	
AMD 7351P PS7351PBEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.40	2.90	2.90 / 2	155W	DDR4-2400/2666	None	
AMD 7501 PS7501BEVHCAF	Naples	SP3	PR	64MB	32 / 64	2.00	2.60	3.00 / 3	155W	DDR4-2400/2666	None	
AMD 7401 PS7401BEVHCAF	Naples	SP3	PR	64MB	24 / 48	2.00	2.80	3.00 / 3	155W	DDR4-2400/2666	None	
AMD 7401P PS7401PBEVHCAF	Naples	SP3	PR	64MB	24 / 48	2.00	2.80	3.00 / 3	155W	DDR4-2400/2666	None	
AMD 7301 PS7301BEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.20	2.70	2.70 / 2	155W	DDR4-2400/2666	None	
AMD 7251 PS7251BFV8SAF	Naples	SP3	PR	32MB	8 / 16	2.00	2.90	2.90 / 2	120W	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-UHTD	DDR4	SKhynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC Registered	17	288-pin		
HMA82GR7AFR8N-UHT2	DDR4	SKhynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC Registered	17	288-pin		
HMA84GR7AFR4N-UHTD	DDR4	SKhynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
HMA84GR7AFR4N-UHT2	DDR4	SKhynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
CT16G4RFD424A_26FB1	DDR4	Crucial	16GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
MTA36ASF4G72PZ-2G3B1QK	DDR4	Micron	16GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
CT16G4RFS424A_18FB1	DDR4	Crucial	16GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
MTA18ASF2G72PZ-2G3B1IG	DDR4	Micron	16GB	Micron	1R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
M4R0-8GSS5BCSJ	DDR4	INNOVATION	8GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
M393A4K40B1-CRCQD	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
VP9MR4G7224JBJSB	DDR4	Viking	32GB	Samsung	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin		
M393A4K40B2-CTD	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
CT32G4RFD4266_36FD1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
CT32G4RFD4266_26GD1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA36ASF4G72PZ 2G6D1RG	DDR4	Micron	32GB	Micron-Inphi	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA36ASF4G72PZ 2G6D1QK	DDR4	Micron	32GB	Micron-Montage	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
CT32G4RFD4266_26GD1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA82GR7AFR8N-VKT3	DDR4	SKhynix	16GB	SKhynix-Montage	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA84GR7AFR4N-VKTF	DDR4	SKhynix	32GB	SKhynix-IDT	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
CT16G4RFD8266-2G6H1.001	DDR4	CRUCIAL	16GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA18ASF2G72PZ-2G6H1Q1G	DDR4	Micron	16GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
CT32G4RFD4266-2G6H1.001	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA36ASF4G72PZ-2G6H1Q1G	DDR4	Micron	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA82GR7AFR4N-VKT3	DDR4	SKhynix	16GB	SKhynix-Montage	1R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA82GR7AFR4N-VKTF	DDR4	SKhynix	16GB	SKhynix-IDT	1R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA84GR7AFR4N-VKT3	DDR4	SKhynix	32GB	SKhynix-Montage	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
HMA84GR7AFR4N-VKTF	DDR4	SKhynix	32GB	SKhynix-Montage	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
CT16G4RFD8266_18FD1	DDR4	CRUCIAL	16GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
CT16G4RFD8266_26GD1	DDR4	CRUCIAL	16GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA18ASF2G72PZ-2G6D1Q1G	DDR4	Micron	16GB	Micron-Montage	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA18ASF2G72PZ-2G6D1SG	DDR4	Micron	16GB	Micron-IDT	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
CT32G4RFD4266_2G6E1.151	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
MTA18ASF2G72PZ-2G6E1SG	DDR4	Micron	16GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
KSM26RS8/8HAI	DDR4	Kingston	8GB	SKhynix-IDT	1R X8	1.2v	2666MHz	ECC Registered	19	288-pin		
KSM26RS4/16HAI	DDR4	Kingston	16GB	SKhynix-IDT	1R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
KSM26RD4/32HAI	DDR4	Kingston	32GB	SKhynix-IDT	2R X4	1.2v	2666MHz	ECC Registered	19	288-pin		
LRDIMM												
HMAA8GL7AMR4N-UHTE	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2400MHz	ECC Registered	17	288-pin		
M386A8K40B1-CRC40 M	DDR4	Samsung	64GB	Samsung	4DRx4	1.2v	2400MHz	ECC Registered	17	288-pin	Test by CRA3338/CRA4448/CRA4548	
HMAA8GL7AMR4N-VKTF	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2666MHz	ECC Registered	19	288-pin	Test by CSA4648	
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 3.5 HDD												
ST8000MM0034	SAS	Seagate	3.5"	512e	6TB	12Gb/s	Enterprise Capacity V	128MB	7200	N/A	Test by CRA3338/CRA4448/CRA4548	
ST8000MM0055	SATA	Seagate	3.5"	512e	8TB	6Gb/s	Enterprise Capacity V	256MB	7200	N/A	Test by CSA4648	
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												
MG04ACA600E	SATA	Toshiba	3.5"	512e	6TB	6Gb/s	Capacity	128MB	7200	N/A	Test by CRA3338/CRA4448/CRA4548	
SATA/SAS SSD												
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note				
SATA/SAS SSD												
XF1212-1A0512	SSD	Seagate	2.5"	SATA	480GB	6Gb/s	RL04					
SDLF1CRR-019T-1HA1	SSD	SanDisk	2.5"	SATA	1.92TB	6Gb/s	ZR04					
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s						
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												
CRA4648	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					
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						
CLN4522	RJ-45	PCIe x8 Gen2 x8	Dual		10Gb/s per port	INTEL X540						
CLN4752	QSFP+	PCIe x8 Gen3 x8	Dual		40Gb/s per port	INTEL XL710						
CLN4314	RJ-45	PCIe x4 Gen2 x4	Quad		40Gb/s per port	INTEL I350-AM4						
GC-MLBZ1	SFP+	PCIe x8 Gen2 x8	Dual		10Gb/s per port	Broadcom BCM57810S						
CLN4222	RJ-45	PCIe x8 Gen3 x4	Dual		10Gb/s per port	INTEL X550-AT2						
CLN4312	RJ-45	PCIe x4 Gen2 x4	Dual		1Gb/s per port	INTEL I350-AM2						
Mellanox ConnectX®-3 VPI Adapter Cards												
MCX354A-FCBT	QSFP	PCIe 3.0	Dual		FDR and 40/56GbE							
Solarflare Onload Server Adapters												
SFN7322E	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							
Transceiver / AOC / DAC												
Product Name / Product Number	Speed	Form Factor	Length	Connector type	nominal optical wavelength (nm)	Note						
Transceiver												
Avago AFBR-709DMZ	10Gb/1Gb	SFP+	N/A	LR	850							
UMEC PDGSFTRL00	10Gb/1Gb	SFP+	N/A	LR	850							
WAVESPLITTER WST-SFP+SRc-C	10Gb/1Gb	SFP+	N/A	SR	850							
Finisar FTLX8574D3BCV	10Gb/1Gb	SFP+	N/A	SR	850							
Active Optical Cables (AOC)												
Avago AFBR-7CER03Z	10Gb	SFP+	3M	N/A	850							
Direct Attach Copper (DAC)												
Amphenol 586710004	10Gb	SFP+	7M	N/A	850							
MOLEX 747524501	10Gb	SFP+	5M	N/A	850							
PSU												
Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	Note						
DELTA DPS-1600EB A (Redundancy)												
DELTA DPS-1600EB A (Redundancy)	DELTA	100~127vac	1600W	Desktop/Server	N/A							
FSP FSP1200-50AAG (Redundancy)												
FSP FSP1200-50AAG (Redundancy)	FSP	100~240vac	1200W	Desktop/Server	N/A							
LITEON PS-2751-SL												
LITEON PS-2751-SL	LITEON	100~240vac	750W	Desktop/Server	N/A							
DELTA DPS-600AB-1-D												
DELTA DPS-600AB-1-D	DELTA	100~240vac	600W	Desktop/Server	N/A							
FSP-YH-5651M (Redundancy)												
FSP-YH-5651M (Redundancy)	FSP	100~240Vvac	565W	Desktop/Server	N/A	For R151-Z30 system						
PS-2801-BL (Redundancy)												
PS-2801-BL (Redundancy)	LITEON	100~240Vvac	800W	Desktop/Server	N/A	For R271-Z31 system						
PCIe SSD												

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note
PCIe SSD							
S5DPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCIe 2.0	PCIe(NVMe)	4TB		