

MZ31-AR0 Qualification Vendor List Ver:1.3

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	TDP	Memory Types	Processor Graphics	
AMD 7601 PS7601BDVHAF	Naples	SP3	PR	64MB	32 / 64	2.20	2.70	3.20 / 3	180W	DDR4-2666	None	
AMD 7551 PS7551BDVHAF	Naples	SP3	PR	64MB	32 / 64	2.00	2.55	3.00 / 3	180W	DDR4-2666	None	
AMD 7451 PS7451BDVHCAFA	Naples	SP3	PR	64MB	24 / 48	2.30	3.20	3.20 / 3	180W	DDR4-2666	None	
AMD 7351 PS7351BEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.40	2.90	2.90 / 2	155/170W	DDR4-2400/2666	None	
AMD 7351P PS7351PBEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.40	2.90	2.90 / 2	155/170W	DDR4-2400/2666	None	
AMD 7501 PS7501BEVHAF	Naples	SP3	PR	64MB	32 / 64	2.00	2.60	3.00 / 3	155/170W	DDR4-2400/2666	None	
AMD 7401 PS7401BEVHCAF	Naples	SP3	PR	64MB	24 / 48	2.00	2.80	3.00 / 3	155/170W	DDR4-2400/2666	None	
AMD 7401P PS7401PBEVHCAF	Naples	SP3	PR	64MB	24 / 48	2.00	2.80	3.00 / 3	155/170W	DDR4-2400/2666	None	
AMD 7301 PS7301BEVGPAP	Naples	SP3	PR	64MB	16 / 32	2.20	2.70	2.70 / 2	155/170W	DDR4-2400/2666	None	
AMD 7251 PS7251BFVBSAF	Naples	SP3	PR	32MB	8 / 16	2.00	2.90	2.90 / 2	120W	DDR4-2400	None	
AMD 7371 PD PS7371BDVGPAP	Naples	SP3	PD	64MB	16 / 32	3.10	3.60	3.80 / 200W	200W	DDR4-2666	None	
Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores / Threads	Processor Base Freq (GHz)	Processor Boost Max Freq (GHz)	Default TDP	cTDP Min / cTDP Max	Memory Types	Processor Graphics	
AMD 7H12 100-000000055	ROME	SP3	PD	256MB	64 / 128	2.60	3.40	280W	225W/280W	DDR4-3200	None	
AMD 7742 100-000000053	ROME	SP3	BO PR	256MB	64 / 128	2.25	3.40	225W	225W/240W	DDR4-3200	None	
AMD 7702 100-000000038	ROME	SP3	BO PR	256MB	64 / 128	2.00	3.35	200W	165W/200W	DDR4-3200	None	
AMD 7662 100-000000137	ROME	SP3	PD	256MB	64 / 128	2.00	3.30	225W	225W/240W	DDR4-3200	None	
AMD 7642 100-000000074	ROME	SP3	BO PR	192MB	48 / 96	2.30	3.40	225W	225W/240W	DDR4-3200	None	
AMD 7562 100-000000076	ROME	SP3	BO PR	192MB	48 / 96	2.20	3.30	200W	165W/200W	DDR4-3200	None	
AMD 7542 100-000000075	ROME	SP3	BO PR	128MB	32 / 64	2.90	3.40	225W	225W/240W	DDR4-3200	None	
AMD 7532 100-000000136	ROME	SP3	PD	256MB	32 / 64	2.40	3.30	200W	180W/200W	DDR4-3200	None	
AMD 7502 100-000000054	ROME	SP3	BO PR	128MB	32 / 64	2.50	3.35	180W	165W/200W	DDR4-3200	None	
AMD 7452 100-000000057	ROME	SP3	BO PR	128MB	32 / 64	2.35	3.35	155W	155W/180W	DDR4-3200	None	
AMD 7F72 100-000000141	ROME	SP3	PD	192MB	24 / 48	3.20	3.70	240W	225W/240W	DDR4-3200	None	
AMD 7402 100-000000046	ROME	SP3	BO PR	128MB	24 / 48	2.80	3.35	180W	165W/200W	DDR4-3200	None	
AMD 7352 100-000000077	ROME	SP3	BO PR	128MB	24 / 48	2.30	3.20	155W	155W/180W	DDR4-3200	None	
AMD 7F52 100-000000140	ROME	SP3	PD	256MB	16 / 32	3.50	3.90	240W	225W/240W	DDR4-3200	None	
AMD 7302 100-000000043	ROME	SP3	BO PR	128MB	16 / 32	3.00	3.30	155W	155W/180W	DDR4-3200	None	
AMD 7282 100-000000078	ROME	SP3	BO PR	64MB	16 / 32	2.80	3.20	120W	120W/150W	DDR4-2666	None	
AMD 7272 100-000000079	ROME	SP3	PD	64MB	12 / 24	2.90	3.20	120W	120W/150W	DDR4-2666	None	
AMD 7F32 100-000000139	ROME	SP3	BO PR	128MB	8 / 16	3.70	3.90	180W	165W/200W	DDR4-3200	None	
AMD 7262 100-000000041	ROME	SP3	BO PR	128MB	8 / 16	3.20	3.40	155W	155W/180W	DDR4-3200	None	
AMD 7252 100-000000080	ROME	SP3	PD	64MB	8 / 16	3.10	3.20	120W	120W/150W	DDR4-2666	None	
AMD 7702P 100-000000047	ROME	SP3	BO PR	256MB	64 / 128	2.00	3.35	200W	165W/200W	DDR4-3200	None	
AMD 7502P 100-000000045	ROME	SP3	BO PR	128MB	32 / 64	2.50	3.35	180W	165W/200W	DDR4-3200	None	
AMD 7402P 100-000000048	ROME	SP3	BO PR	128MB	24 / 48	2.80	3.35	180W	165W/200W	DDR4-3200	None	
AMD 7302P 100-000000049	ROME	SP3	BO PR	128MB	16 / 32	3.00	3.30	155W	155W/180W	DDR4-3200	None	
AMD 7232P 100-000000081	ROME	SP3	PD	32MB	8 / 16	3.10	3.20	120W	120W/150W	DDR4-2666	None	
Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores / Threads	Processor Base Freq (GHz)	Processor Boost Max Freq (GHz)	Default TDP	cTDP Min / cTDP Max	Memory Types	Processor Graphics	
AMD 7763 100-000000032	Milan	SP3	PR	256MB	64 / 128	2.45	3.50	280W	225W/280W	DDR4-3200	None	
AMD 7713 100-000000034	Milan	SP3	PR	256MB	64 / 128	2.00	3.675	225W	225W/240W	DDR4-3200	None	
AMD 7663 100-0000000318	Milan	SP3	PR	256MB	56 / 112	2.00	3.50	240W	225W/240W	DDR4-3200	None	
AMD 7643 100-0000000326	Milan	SP3	PR	256MB	48 / 96	2.30	3.60	225W	225W/240W	DDR4-3200	None	
AMD 75F3 100-0000000313	Milan	SP3	PR	256MB	32 / 64	2.95	4.00	280W	225W/280W	DDR4-3200	None	
AMD 7543 100-0000000345	Milan	SP3	PR	256MB	32 / 64	2.80	3.70	225W	225W/240W	DDR4-3200	None	
AMD 7513 100-0000000334	Milan	SP3	PR	128MB	32 / 64	2.60	3.65	200W	165W/200W	DDR4-3200	None	
AMD 74F3 100-0000000317	Milan	SP3	PR	256MB	24 / 48	3.20	4.00	240W	225W/240W	DDR4-3200	None	
AMD 7443 100-0000000340	Milan	SP3	PR	128MB	24 / 48	2.85	4.00	200W	165W/200W	DDR4-3200	None	
AMD 7413 100-0000000323	Milan	SP3	PR	128MB	24 / 48	2.65	3.60	180W	165W/200W	DDR4-3200	None	
AMD 73F3 100-0000000321	Milan	SP3	PR	256MB	16 / 32	3.50	4.00	240W	225W/240W	DDR4-3200	None	
AMD 7343 100-0000000338	Milan	SP3	PR	128MB	16 / 32	3.20	3.90	190W	165W/200W	DDR4-3200	None	
AMD 7313 100-0000000329	Milan	SP3	PR	128MB	16 / 32	3.00	3.70	155W	155W/180W	DDR4-3200	None	
AMD 72F3 100-0000000327	Milan	SP3	PR	256MB	8 / 16	3.70	4.10	180W	165W/200W	DDR4-3200	None	
AMD 7713P 100-0000000337	Milan	SP3	PR	256MB	64 / 128	2.00	3.675	225W	225W/240W	DDR4-3200	None	
AMD 7543P 100-0000000341	Milan	SP3	PR	256MB	32 / 64	2.80	3.70	225W	225W/240W	DDR4-3200	None	
AMD 7443P 100-0000000342	Milan	SP3	PR	128MB	24 / 48	2.85	4.00	200W	165W/200W	DDR4-3200	None	
AMD 7313P 100-0000000339	Milan	SP3	PR	128MB	16 / 32	3.00	3.70	155W	155W/180W	DDR4-3200	None	
Memory												
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note	
RDIMM												
HMA82GR7AFR8N-UH2D	DDR4	SKhynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC	17	288-pin		
HMA82GR7AFR8N-UH2E	DDR4	SKhynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC	17	288-pin		
HMA84GR7AFR4N-UH2D	DDR4	SKhynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC	17	288-pin		
HMA84GR7AFR4N-UH2E	DDR4	SKhynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC	17	288-pin		
CT16G4RF424A.36F81	DDR4	Crucial	16GB	Micron	2R X4	1.2v	2400MHz	ECC	17	288-pin		
MTA36ASF2G72PZ.2G3B1QK	DDR4	Micron	16GB	Micron	2R X4	1.2v	2400MHz	ECC	17	288-pin		
CT16G4RFD42A.18F81	DDR4	Crucial	16GB	Micron	1R X4	1.2v	2400MHz	ECC	17	288-pin		
MTA18ASF2G72PZ.2G3B1IG	DDR4	Micron	16GB	Micron	1R X4	1.2v	2400MHz	ECC	17	288-pin		
M4R0-8GSBSCSJ	DDR4	INNOVATION	8GB	Samsung	2R X4	1.2v	2400MHz	ECC	17	288-pin		
M393A4K08B1-CRC0Q	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2400MHz	ECC	17	288-pin		
VP9MR4G7224JBJSB	DDR4	Viking	32GB	Samsung	2R X4	1.2v	2400MHz	ECC	17	288-pin		
M393A4K08B2-CTD	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2666MHz	ECC	19	288-pin		
CT32G4RFD4266.36FD1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	19	288-pin		
CT32G4RFD4266-2G6D1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	19	288-pin		
MTA36ASF4G72PZ.2G6D1RG	DDR4	Micron	32GB	Micron-Inphi	2R X4	1.2v	2666MHz	ECC	19	288-pin		
MTA36ASF4G72PZ.2G6D1QK	DDR4	Micron	32GB	Micron-Montage	2R X4	1.2v	2666MHz	ECC	19	288-pin		
CT32G4RFD4266-2G6D1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	19	288-pin		
HMA82GR7AFR8N-VK13	DDR4	SKhynix	16GB	SKhynix-Montage	2R X4	1.2v	2666MHz	ECC	19	288-pin		
HMA82GR7AFR4N-VK1F	DDR4	SKhynix	32GB	SKhynix-IDT	2R X4	1.2v	2666MHz	ECC	19	288-pin		
CT16G4RFD8266-2G6H1.001	DDR4	CRUCIAL	16GB	Micron	2R X8	1.2v	2666MHz	ECC	19	288-pin		
MTA18ASF2G72PDZ-2G6H1QG	DDR4	Micron	16GB	Micron	2R X8	1.2v	2666MHz	ECC	19	288-pin		
CT32G4RFD4266-2G6H1.001	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	19	288-pin		
MTA36ASF4G72PZ.2G6H1QG	DDR4	Micron	32GB	Micron	2R X4	1.2v	2666MHz	ECC	19	288-pin		
HMA82GR7AFR4N-VK13	DDR4	SKhynix	16GB	SKhynix-Montage	1R X4	1.2v	2666MHz	ECC	19	288-pin		
HMA82GR7AFR4N-VK1F	DDR4	SKhynix	32GB	SKhynix-IDT	1R X4	1.2v	2666MHz	ECC	19	288-pin		
HMA84GR7AFR4N-VK13	DDR4	SKhynix	32GB	SKhynix-Montage	2R X4	1.2v	2666MHz	ECC	19	288-pin		
HMAA8GR7A2R4N-VNT3	DDR4	SKhynix	64GB	SKhynix	2S2R x4	1.2v	2666MHz	ECC	19	288-pin		
CT16G4RFD8266.18FD1	DDR4	CRUCIAL	16GB	Micron	2Rx8	1.2v	2666MHz	ECC	19	288-pin		
CT16G4RFD8266.2G6D1	DDR4	CRUCIAL	16GB	Micron	2Rx8	1.2v	2666MHz	ECC	19	288-pin		
MTA18ASF2G72PDZ-2G6D1QG	DDR4	Micron	16GB	Micron-Montage	2Rx8	1.2v	2666MHz	ECC	19	288-pin		
MTA18ASF2G72PDZ-2G6D1SG	DDR4	Micron	16GB	Micron-IDT	2Rx8	1.2v	2666MHz	ECC	19	288-pin		
CT32G4RFD4266.2G6E1.001	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2666MHz	ECC	19	288-pin		
MTA18ASF2G72PDZ-2G6E1SG	DDR4	Micron	16GB	Micron	2Rx8	1.2v	2666MHz	ECC	19	288-pin		
K5M26RS8J8HAI	DDR4	Kingston	8GB	SKhynix-IDT	1Rx8	1.2v	2666MHz	ECC	19	288-pin		
K5M26RS416HAI	DDR4	Kingston	16GB	SKhynix-IDT	1Rx4	1.2v	2666MHz	ECC	19	288-pin		
K5M26RD432HAI	DDR4	Kingston	32GB	SKhynix-IDT	2Rx4	1.2v	2666MHz	ECC	19	288-pin		
M393A2K40C82-CVFBQ	DDR4	Samsung	16GB	Samsung-IDT	1Rx4	1.2v	2933MHz	ECC	21	288-pin		
M393A2K40D82-CVFBQ	DDR4	Samsung	16GB	Samsung-IDT	1Rx4	1.2v	2933MHz	ECC	21	288-pin		
M393A2K43C82-CVFBQ	DDR4	Samsung	16GB	Samsung-IDT	2Rx8	1.2v	2933MHz	ECC	21	288-pin		
M393A4K40C82-CVFBQ	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC	21	288-pin		
M393A4K40D82-CVFBQ	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC	21	288-pin		
ST4097RD420414-SC	DDR4	SMART	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC	21	288-pin		
M393A4K40D82-CVFBQ	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC	21	288-pin		
M393A8G40M82-CVFBQ	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	2933MHz					

CT16G4RFS4293-18FE1	DDR4	CRUCIAL	16GB	Micron	1Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
CT16G4RFS4293-2G9E1.001	DDR4	CRUCIAL	16GB	Micron	1Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF2G72PZ-2G9E1TK	DDR4	Micron	16GB	Micron	1Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF2G72PZ-2G9E1VG	DDR4	Micron	16GB	Micron-IDT	1Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF2G72PDZ-2G9J3VI	DDR4	Micron	16GB	Micron-IDT	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF2G72PDZ-2G9J3UI	DDR4	Micron	16GB	Micron-IDT	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA9ASF2G72PZ-2G9E1T1	DDR4	Micron	16GB	Micron	1Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
CT32G4RFD4293-38FE2	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ-2G9E2TG	DDR4	Micron	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ-2G9E2VG	DDR4	Micron	32GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ-2G9E2UG	DDR4	Micron	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF4G72PDZ-X-2G9E1T1	DDR4	Micron	32GB	Micron	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
CT64G4RFD4293-2G9B2.001	DDR4	Crucial	64GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF8G72PZ-2G9B2VI	DDR4	Micron	64GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF8G72PZ-2G9E1T1	DDR4	Micron	64GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
HMA81GR7CJR8N-WM TG	DDR4	SKhynix	8GB	SKhynix-IDT	1Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
HMA82GR7CJR8N-WM T4	DDR4	SKhynix	16GB	SKhynix-Montage	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
HMA84GR7CJR4N-WM TG	DDR4	SKhynix	32GB	SKhynix-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
HMAA8GR7MJR4N-WM T4	DDR4	SKhynix	64GB	SKhynix-Montage	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
KSM29RD8/16MEI	DDR4	Kingston	16GB	Micron-IDT	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
KSM29RD4/32MEI	DDR4	Kingston	32GB	Micron-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
NT16GA72D8PBX3P-IX	DDR4	Nanya	16GB	Nanya-IDT	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
NT32GA72D4NBX3P-IX	DDR4	Nanya	32GB	Nanya-Montage or IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
HMA81GR7CJR8N-XN TG	DDR4	SKhynix	8GB	SKhynix-IDT	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA82GR7CJR8N-XN T4	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA82GR7CJR8N-XN T8	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA82GR7CJR8N-XN TG	DDR4	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA82GR7DJR8N-XN T8	DDR4	SKhynix	16GB	SKhynix-Rambus	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA84GR7CJR4N-XN T8	DDR4	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA84GR7CJR4N-XN T4	DDR4	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA84GR7CJR4N-XN TG	DDR4	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA84GR7DJR4N-XN T4	DDR4	SKhynix	32GB	SKhynix-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
HMAA8GR7AJR4N-XN TG	DDR4	SKhynix	64GB	SKhynix-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
CT8G4RFS832A-9FE1	DDR4	Crucial	8GB	Micron	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
CT8G4RFS832A-3G2E1.001	DDR4	Crucial	8GB	Micron	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA9ASF1G72PZ-3G2E1VG	DDR4	Micron	8GB	Micron	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
CT16G4RFD832A-18FE1	DDR4	Crucial	16GB	Micron-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PDZ-3G2E1VG	DDR4	Micron	16GB	Micron-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
CT16G4RFD832A-3G2E1.001	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PDZ-3G2E1UK	DDR4	Micron	16GB	Micron	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA9ASF2G72PZ-3G2E1T1	DDR4	Micron	16GB	Montage	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PZ-3G2E2T1	DDR4	Micron	16GB	Montage	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PDZ-3G2J3UI	DDR4	Micron	16GB	Montage	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
CT32G4RFD432A-38FE2 (3200MHz only support on 1DPC)	DDR4	Crucial	32GB	Micron-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
CT32G4RFD432A-3G2E2T1 (3200MHz only support on 1DPC)	DDR4	Crucial	32GB	Micron	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2E2TG (3200MHz only support on 1DPC)	DDR4	Micron	32GB	Micron-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
CT32G4RFD432A-3G2E7.001	DDR4	Crucial	32GB	Micron-Montage or Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
CT32G4RFD432A-38FE7	DDR4	Crucial	32GB	Micron-Montage or Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2E7VI	DDR4	Micron	32GB	Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2E7T1	DDR4	Micron	32GB	Micron	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF4G72PDZ-3G2B2TI	DDR4	Micron	32GB	Micron	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2J3UI	DDR4	Micron	32GB	Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF4G72PDZ-3G2E1UI	DDR4	Micron	32GB	Rambus	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
CT64G4RFD432A-3G2B2.001	DDR4	Crucial	64GB	Micron	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF8G72PZ-3G2B2TI	DDR4	Micron	64GB	Micron	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF8G72PZ-3G2E1VI	DDR4	Micron	64GB	Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K40DB2-CWEGQ (3200MHz only support on 1DPC)	DDR4	Samsung	16GB	Samsung-IDT	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K43DB2-CWEGQ (3200MHz only support on 1DPC)	DDR4	Samsung	16GB	Samsung-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K43DB3-CWEGQ	DDR4	Samsung	16GB	Samsung-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K40DB3-CWEGQ	DDR4	Samsung	16GB	Samsung-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K40DB3-CWEGQ	DDR4	Samsung	16GB	Samsung-IDT	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K40DB3-CWEGQ	DDR4	Samsung	16GB	Samsung	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB2-CWEGQ (3200MHz only support on 1DPC)	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWEGQ	DDR4	Samsung	32GB	Samsung-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWEGQ	DDR4	Samsung	32GB	Samsung-Montage	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWEGQ	DDR4	Samsung	32GB	Samsung-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A8G40AB2-CWEGQ	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393AAG40M32-CAEBQ	DDR4	Samsung	128GB	Samsung	2S2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
TR416G32S422-XNC	DDR4	V-color	16GB	SKhynix-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RD8/16MEI	DDR4	Kingston	16GB	Micron-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RD4/32MEI	DDR4	Kingston	32GB	Micron-IDT	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
LRDIMM											
HMAA8GL7AMR4N-UHTE	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2400MHz	ECC Registered	17	288-pin	
M386A8K40BM1-CRC4Q M	DDR4	Samsung	64GB	Samsung	4DRx4	1.2v	2400MHz	ECC Registered	17	288-pin	
HMAA8GL7AMR4N-VKTF	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2666MHz	ECC Registered	19	288-pin	
M386A8K40DM2-CWELQ	DDR4	Samsung	64GB	Samsung-IDT	4DRx4	1.2v	3200MHz	ECC Registered	22	288-pin	

Storage												
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	Note	
SATA												
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A		
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A		
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity)	128MB	7200	N/A		
ST1000NM0016	SATA	Seagate	3.5"	512e	10TB	6Gb/s	Exos X10 (Enterprise Capacity)	256MB	7200	N/A		
ST2000NM0008	SATA	Seagate	3.5"	512n	2TB	6Gb/s	EXOS 7E2	128MB	7200	N/A		
ST14000NM0018	SATA	Seagate	3.5"	512e	14TB	6Gb/s	Exos X14 (Enterprise Capacity)	256MB	7200	N/A		
ST16000NM001G	SATA	Seagate	3.5"	512e/4Kn	16TB	6Gb/s	EXOS X16	256MB	7200	N/A		
ST8000NM000A	SATA	Seagate	3.5"	512e	8TB	6Gb/s	EXOS 7E8	256MB	7200	N/A		
WD4000FYZ-01ULB2	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200	N/A		
WD6001FSYZ-01SS7B0	SATA	WD	3.5"	512e	6TB	6Gb/s	WD Re	128MB	7200	N/A		
HUH721212ALE604	SATA	HGST / WD	3.5"	512e	12TB	6Gb/s	Ultrastar DC HC520 (He12)	256MB	7200	N/A		
HUS728T8ALE6L4	SATA	HGST / WD	3.5"	512e	8TB	6Gb/s	Ultrastar® DC HC320 (7K8)	256MB	7200	Secure Erase		
HUS722T2TALA604 / 1W10002	SATA	HGST / WD	3.5"	512n	2TB	6Gb/s	Ultrastar DC HAZ10 (7K8)	128MB	7200	N/A		
MG04ACA600E	SATA	Toshiba	3.5"	512e	6TB	6Gb/s	Capacity	128MB	7200	N/A		
MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A		
MG06ACA10TE	SATA	Toshiba	3.5"	512e	10TB	6Gb/s	Capacity	256MB	7200	N/A		
MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	Capacity	256MB	7200	N/A		
MTFDDAK1T9TDD-1AT1ZABYY (5200 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s						
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s						
SSDSC2KG019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s						
SSDSC2KB019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s						
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s						
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s						
SRE100-960G00210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s						
SRE100-480G00210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s						
SEDC500M3840G DC500M Series	SSD	Kingston	2.5"	SATA	3.84TB	6Gb/s						
SEDC500M1920G DC500M Series	SSD	Kingston	2.5"	SATA	1.92TB	6Gb/s						
SEDC500M960G DC500M Series	SSD	Kingston	2.5"	SATA	960GB	6Gb/s						
SEDC500M480G DC500M Series	SSD	Kingston	2.5"	SATA	480GB	6Gb/s						
KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s						
M.2												
SSDPEKKA010T801 P4101 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB							
SSDPEKKA256G901 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB							
SSDPEKKA256G701 P3100 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB							
SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB							
MZVPV128HDGM	M.2	Samsung	2280	PCIe(NVMe)	128GB							
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB							
IM2P33F8-256GD	M.2	ADATA	2280	PCIe(NVMe)	256GB							
IM2P33F8-512GD	M.2	ADATA	2280	PCIe(NVMe)	512GB							
PCIe SSD												
SSDPEDK040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCI-E 3.0	PCIe(NVMe)	4TB	Gen3 x4						
Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB	PCIe	Netlist	PCI-E 3.0	PCIe(NVMe)	3.2TB	Gen3 x8						
Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	3.2TB	Gen3 x8						
GGPU Card												
Product Name	Processor Cores	Memory Bandwidth	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note					
Nvidia Tesla (http://www.nvidia.com/object/tesla-supercomputing-solutions.html)												
P40 (Pascal)	3840	346 GB/s	-	-	250 W	-						
V100 (Volta)	5120	900GB/sec	-	-	250 W	-						
AMD												
AMD FIREPRO W9100		320 GB/s	OpenGL 4.4	DirectX® 11.2/12	235W	-						
NVIDIA												
NVIDIA K5200		192.0 GB/s	OpenGL 4.5	DirectX® 11.2/12	150W	-						
Graphics Card												
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note					
Nvidia GeForce												
GeForce TITAN X (Pascal)	3072	336.5Gbps	4.5	12	250 W	Yes (4-way)						
GeForce RTX 2080Ti (Pascal)	2560	320 Gbps	4.5	12	180 W	Yes (2-way)						
GTX1070 G1 Gaming (passive heatsink) (Pascal)	1920	256 GBps	4.5	12	150 W	Yes (2-way)						
GTX1060 G1 Gaming (passive heatsink) (Pascal)	1280	192 GBps	4.5	12	120 W	-						
GeForce GTX 1080 founders edition (Pascal)	2560	320 GBps	4.5	12	180 W	Yes (2-way)						
GeForce GTX 1070 founders edition (Pascal)	1920	256 GBps	4.5	12	150 W	Yes (2-way)						
GeForce GTX 1060 founders edition (Pascal)	1280	192 GBps	4.5	12	120 W	-						
RAID Card												
Product Name	RAID-on-Chip Controller	Vendor	Host Bus Type	Internal Ports	Internal Connector - Gigabyte	External Ports	External Connectors	Data Transfer Rate	Note			
CRA3338	LSI SAS 3008	Gigabyte	PCIe- x8 Gen3 x8 bus	8	2 x Mini-SAS HD for 8x SAS	-	-	12Gb/s ports	-			
CRA4448	LSI SAS 3108	Gigabyte	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports	-			
CRA4548	LSI SAS 3108	Gigabyte	PCIe- x8 Gen3 x8 bus	4	1 x internal Mini-SAS HD SFF8643	4	1 x external Mini-SAS HD SFF8644	12Gb/s ports	-			
CRA4648	LSI SAS 3108	Gigabyte	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports	-			
CSA3548	LSI SAS 3008	Gigabyte	PCIe- x8 Gen3 x8 bus	-	-	8	2 x external Mini-SAS HD SFF8644	12Gb/s ports	-			
CSA4648	LSI SAS 3008	Gigabyte	PCIe- x8 Gen3 x8 bus	8	2 x internal Mini-SAS HD SFF8643	-	-	12Gb/s ports	-			
LSI												
LSI SAS 9300-8e	SAS3008	LSI	x8 lane PCI Express 3.0	-	-	8	2 x mini-SAS HD SFF8644	12Gb/s SAS 3.0	-			
LSI SAS 9300-8i	SAS3008	LSI	x8 lane PCI Express 3.0	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	-			
LSI SAS 9400-16i	SAS3416	LSI	x8 lane PCI Express 3.1	16	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	-			
LSI SAS 9400-8i	SAS3408	LSI	x8 lane PCI Express 3.1	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	-			
MegaRAID SAS 9271-8i	LSISAS2208 Dual-Core RAID on Chip (ROC)	LSI	x8 lane PCI Express 3.0	8	2 x Mini-SAS SFF8087 (side)	-	-	Up to 6Gb/s per port	-			
MegaRAID SAS 9361-8i	LSISAS3108 dual core RAID on Chip (ROC)	LSI	x8 lane PCI Express 3.0	8	2 x HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port	-			
MegaRAID SAS 9380-8e	LSISAS3108 dual core RAID on Chip	LSI	x8 lane PCI Express 3.0	-	-	8	2 x Mini-SAS HD SFF8644	Up to 12Gb/s per port	-			

MegaRAID SAS 9460-16i	SAS3516 dual-core RAID-on-Chip (ROC)	LSI	x8 lane PCI Express 3.1	8	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	-		
MegaRAID SAS 9460-8i	SAS3508 dual-core RAID-on-Chip (ROC)	LSI	x8 lane PCI Express 3.1	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0	-		
Microsemi											
HBA 1100-16i	PM8242	Microsemi	8-Lane PCIe Gen3	16	4 x Internal	-	-	12 Gb/s per port	-		
HBA 1100-24i	PM8238	Microsemi	8-Lane PCIe Gen3	24	6 x Internal	-	-	12 Gb/s per port	-		
SmartHBA 2100-8i	PM8222	Microsemi	8-Lane PCIe Gen3	8	2 x Internal	-	-	12 Gb/s per port	-		
SmartRAID 3154-16i	PM8236	Microsemi	8-Lane PCIe Gen3	16	4 x Internal	-	-	12 Gb/s per port	-		
SmartRAID 3154-8i	PM8204	Microsemi	8-Lane PCIe Gen3	8	2 x Internal	-	-	12 Gb/s per port	-		
PMC											
Adaptec ASR-81605ZQ	-	PMC	8-lane PCIe Gen3	16	4 x internal mini SAS HD (SFF-8643)	-	-	12Gb/s per port	-		
LAN Cards											
GIGABYTE LAN Cards											
Product Name	Connector	System Interface Type		# of Ports	System Interface Type	Data rate	Note				
GC-MLBZ1	SFP+	PCIe x8 Gen2 x8		Dual	10Gb/s per port		Broadcom BCM57810S				
CLN4831	SFP+	PCIe x8 Gen2 x8		Single	10Gb/s per port		INTEL 82599EN				
CLN4832	SFP+	PCIe x8 Gen2 x8		Dual	10Gb/s per port		INTEL 82599ES				
CLN4751	QSFP+	PCIe x8 Gen3 x8		Single	40Gb/s per port		INTEL XL710				
CLN4752	QSFP+	PCIe x8 Gen3 x8		Dual	40Gb/s per port		INTEL XL710				
CLN4121	RJ-45	PCIe x8 Gen3 x4		Single	10Gb/s per port		INTEL X550-AT				
CLN4222	RJ-45	PCIe x8 Gen3 x4		Dual	10Gb/s per port		INTEL X550-AT2				
CLN4224	RJ-45	PCIe x8 Gen3 x4		Quad	10Gb/s per port		INTEL X550-AT2				
CLN4C42	SFP28	PCIe Gen3 x16		Dual	25Gb/s per port		Mellanox ConnectX-4				
CLN4C44	SFP28	PCIe Gen3 x16		Quad	25Gb/s per port		Mellanox ConnectX-4				
CLN4M34	SFP28	PCIe Gen3 x16		Quad	10Gb/s per port		Mellanox ConnectX-4				
CLN4312	RJ-45	PCIe x4 Gen2 x4		Dual	1Gb/s per port		INTEL I350-AM2				
CLN4314	RJ-45	PCIe x4 Gen2 x4		Quad	1Gb/s per port		INTEL I350-AM4				
Intel_10GbE											
Intel® Ethernet Converged Network Adapter X550-T2	RJ-45	PCIe v3.0 (8.0 GT/s)		Dual	10Gb/s per port						
Intel® Ethernet Converged Network Adapter X520-DA2	SFP+	PCIe v2.0 (5.0GT/s)		Dual	10Gb/s per port						
Intel® Ethernet Converged Network Adapter X710-T4	RJ-45	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port						
Intel® Ethernet Converged Network Adapter X710-DA4	SFP+	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port						
Intel® Ethernet Network Adapter X722-DA4	SFP+	PCIe v3.0 (8.0 GT/s)		Quad	10Gb/s per port						
Intel_25GbE											
Intel® Ethernet Network Adapter XXV710-DA2	SFP28	PCIe v3.0 (8.0 GT/s)		Dual	25Gb/s per port						
Intel_40GbE											
Intel® Ethernet Converged Network Adapter XL710-QDA2	QSFP+	PCIe v3.0 (8.0 GT/s)		Dual	40Gb/s per port						
Mellanox ConnectX®-3 VPI Adapter Cards											
MCX354A-FCBT	QSFP	PCIe 3.0		Dual	FDR and 40/56GbE						
Mellanox ConnectX											
MCX4121A-ACAT	SFP28	PCIe Gen3 x8		Dual	25Gb/s per port		Mellanox ConnectX-4 Lx EN				
Ologic LAN Adapters											
OLE3442-CU-CK	SFP+	PCIe x8 Gen3 x8		Dual	10Gb/s per port						
OLE3442-RJ-CK	RJ-45	PCIe x8 Gen3 x8		Dual	10Gb/s per port						
QL45212-HLCU	SFP28	PCIe x8 Gen3 x8		Dual	25Gb/s per port						
QL41212HLCU-SP	SFP28	PCIe x8 Gen3 x8		Dual	25Gb/s per port						
QL41132HLCU-SP	SFP28	PCIe x8 Gen3 x8		Dual	10Gb/s per port						
Solarflare Onload Server Adapters											
SFN7322E	SFP+	8.0GT/s (Gen3)		Dual	10Gb/s per port						
Broadcom (Emulex) Ethernet Networking Adapters											
BCM957412A4120AC	SFP+	PCIe 3.0 x8		Dual	10Gb/s per port		BCM57412				
BCM957414A4142CC	SFP28	PCIe 3.0 x8		Dual	25Gb/s per port		BCM57414				
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 PDGFTSRL00	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						