

"G291-Z20" Qualification Vender List

Please contact FAE support for below orange blocks

AMD CPU											
Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores / Threads	Processor Base Freq (GHz)	All Cores BoostMax Freq (GHz)	Processor BoostMax Freq (GHz)	TDP	Memory Types	
AMD 7601 PS7601BDVHAF	Naples	SP3	B2	64MB	32/64	2.20	2.70	3.20 / 3	180W	DDR4-2666	
AMD 7551 PS7551BDVHAF	Naples	SP3	B2	64MB	32/64	2.00	2.55	3.00 / 3	180W	DDR4-2666	
AMD 7451 PS7451BDVHCAF	Naples	SP3	B2	64MB	24/48	2.30	3.20	3.20 / 3	180W	DDR4-2666	
AMD 7351 PS7351BEVGPAP	Naples	SP3	B2	64MB	16/32	2.40	2.90	2.90 / 2	155/170W	DDR4-2400/2666	
AMD 7351P PS7351PBEVGPAP	Naples	SP3	B2	64MB	16/32	2.40	2.90	2.90 / 2	155/170W	DDR4-2400/2666	
AMD 7501 PS7501BEVHAF	Naples	SP3	B2	64MB	32/64	2.00	2.60	3.00 / 3	155/170W	DDR4-2400/2666	
AMD 7401 PS7401BEVHCAF	Naples	SP3	B2	64MB	24/48	2.00	2.80	3.00 / 3	155/170W	DDR4-2400/2666	
AMD 7401P PS7401PBEVHCAF	Naples	SP3	B2	64MB	24/48	2.00	2.80	3.00 / 3	155/170W	DDR4-2400/2666	
AMD 7301 PS7301BEVGPAP	Naples	SP3	B2	64MB	16/32	2.20	2.70	2.70 / 2	155/170W	DDR4-2400/2666	
AMD 7251 PS7251BFV8SAF	Naples	SP3	B2	32MB	8 / 16	2.00	2.90	2.90 / 2	120W	DDR4-2400	
AMD 7261 PS7261BEFV8RAF	Naples	SP3	B2	64MB	8 / 16	2.50	2.90	155/170W	DDR4-2400/2666		
AMD 7371 PS7371BDVGPAP	Naples	SP3	B2	64MB	16/32	3.10	3.60	3.80 /	200W	DDR4-2666	

Memory (Memory actually maximum frequency will follow memory controller's spec of CPU you used)

Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins
RDIMM										
M393A8G40MB2-CTD7Q	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
TR416G26S419-VKA	DDR4	V-color	16GB	SKhynix-Inphi	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
TR432G26D419-VKA	DDR4	V-color	32GB	SKhynix-Inphi	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
M393A2K40C82-CTD6Q	DDR4	Samsung	16GB	Samsung-Montage	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
M393A8K40B22-CWDBQ	DDR4	Samsung	64GB	Samsung	2S2Rx4	1.2v	2666MHz	ECC Registered	17	288-pin
M393A4K40C82-CTD7Q	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFS8266.9FD1	DDR4	Crucial	8GB	Micron	1Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF1G72PZ.2G6D1QG	DDR4	Micron	8GB	Micron	1Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.2G6E1.001	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.18FE1	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF2G72PZDZ.2G6E1SG	DDR4	Micron	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF2G72PZDZ.2G6E1QG	DDR4	Micron	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.36FD1	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.2G6D1.001	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
MTA36ASF4G72PZ.2G6D1	DDR4	Micron	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.-2G6D1	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD4266.2G6E1.001	DDR4	Crucial	16GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
MTA36ASF2G72PZ.2G6E1	DDR4	Micron	16GB	Micron	2Rx4	1.2V	2666MHz	ECC Registered	19	288-pin
HMA82GR7AFR4N-VKT3	DDR4	SKhynix	16GB	SKhynix-Montage	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
HMA82GR7AFR4N-VKT3	DDR4	SKhynix	16GB	SKhynix-Montage	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
HMA82GR7AFR4N-VKTF	DDR4	SKhynix	16GB	SKhynix-IDT	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
HMA84GR7AFR4N-VKT3	DDR4	SKhynix	32GB	SKhynix-Montage	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
HMA84GR7AFR4N-VNT3	DDR4	SKhynix	64GB	SKhynix-IDT	2S2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
KSM26RD4.32H4I	DDR4	Kingston	32GB	SKhynix-IDT	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
KSM26RS4.16H4I	DDR4	Kingston	16GB	SKhynix-IDT	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.2G6E1.001	DDR4	Crucial	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.36FE1	DDR4	Crucial	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
MTA36ASF4G72PZ.2G6E1	DDR4	Micron	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.18FE1	DDR4	Crucial	8GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.2G6E1	DDR4	Crucial	8GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF1G72PZDZ.2G6E1RG	DDR4	Micron	8GB	Micron	2R X8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFS4266.18FD1	DDR4	Crucial	16GB	Micron	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF2G72PZ.2G6D1QI	DDR4	Micron	16GB	Micron	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.2G6H1.001	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF2G72PZDZ.2G6H1QG	DDR4	Micron	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.18FD1	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT16G4RFD8266.2G6D1	DDR4	Crucial	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
MTA18ASF2G72PZDZ.2G6D1	DDR4	Micron	16GB	Micron	2Rx8	1.2v	2666MHz	ECC Registered	19	288-pin
CT32G4RFD4266.2G6H1.001	DDR4	Crucial	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
MTA36ASF4G72PZ.2G6H1QG	DDR4	Micron	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin
HMA84GR7AFR4N-VKTF	DDR4	SKhynix	32GB	SKhynix-IDT	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin

LRDIMM

HMAA8GL7AMR4N-VKTF	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2666MHz	ECC Registered	17	288-pin
M398A8K40M2-CTD7Q	DDR4	Samsung	64GB	Samsung	4DRx4	1.2v	2666MHz	ECC Registered	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										
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000/Enterprise Capacity V.3	128MB	7200	N/A

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000(Enterprise Capacity V.3)	128MB
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000(Enterprise Capacity V.3)	128MB
SATA/SAS SSD								
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note
SATA/SAS SSD								
SSDSC2KG019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s		
SSDSC2KB480G701 (Series DC S4500)	SSD	Intel	2.5"	SATA	480GB	6Gb/s		
SSDSC2KB960G701 (Series DC S4500)	SSD	Intel	2.5"	SATA	960GB	6Gb/s		
MZ7KM1T9HMJP-0005 (SM863a)	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s		
Micron 5100 MTFDDAK960TBY-1AR1ZABYY	SSD	Micron	2.5"	SATA	960GB	6Gb/s		
XA480LE10103	SSD	Seagate	2.5"	SATA	480GB	6Gb/s		
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s		
MZ-7LH1T9NE V-NAND SSD 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s		
SRE100-960G00210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s		
SRE100-480G00210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s		
PCIe SSD								
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note
PCIe SSD								
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel		PCI-E 3.0	4TB	-		
Samsung PM1725a MZPLL1T6HEHP PCIe Gen3 x8 1.6TB	PCIe	Samsung		PCI-E 3.0	1.6TB	-		
Techman XC100CSC-1600 1600GB	PCIe	Techman		PCI-E 3.0	1.6TB	-		
Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB	PCIe	Netlist		PCI-E 3.0	3.2TB	-		
M.2								
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note
M.2								
SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB	-		
Techman M.2-22110 PV100C5B 480GB	M.2	Techman	22110	PCIe(NVMe)	480GB	-		
Techman M.2-2280 PV100D5N 480GB	M.2	Techman	2280	PCIe(NVMe)	480GB	-		
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB	-		
SSDPEKKA256G801 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB	-		
AF1TSMJA-YT1 ATP N600c Series 1TB	M.2	ATP	2280	PCIe(NVMe)	1TB	-		
SSDPEKKA010T801 P4101 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB	-		
SSDPELXK010T801 P4511 Series 1TB	M.2	Intel	22110	PCIe(NVMe)	1TB	-		
MZ-1LB960N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	960GB	-		
MZ-1LB1T9N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	1.92TB	-		
EPX-KW960 EPX Series	M.2	LITE-ON	22110	PCIe(NVMe)	960GB	-		
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
NvidiaTesla (http://www.nvidia.com/object/tesla-supercomputing-solutions.html)								
P40 (Pascal)	3840	346 GB/s	-	-	-	250 W	-	(Maximum support 8pcs GPGPU)
V100 (Volta)	5120	900GB/sec	-	-	-	250 W	-	(Maximum support 8pcs GPGPU)
Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	Note
GIGABYTE Storage Cards								
GRA3338	LSI SAS 3008	PCIe x8 Gen3 x8 bus	8	2 x Mini-SAS HD for 8x SAS	-	-	12Gb/s ports	
GSA3548	LSI SAS 3008	PCIe x8 Gen3 x8 bus	8	-	8	2 x external Mini-SAS HD SFF8644	12Gb/s ports	
GRA4548	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	
GRA4448	LSI SAS 3108	PCIe x8 Gen3 x8 bus	8	2 x Internal Mini-SAS HD SFF8643	-	-	12Gb/s ports	
GRA4648	LSI SAS3108	PCIe x8 slot (3.0 x8 bus)	8	2 x Internal Mini-SAS HD SFF8643	8	-	12Gb/s ports	
GRAO558	LSI SAS 3108	PCIe x8 Gen3 x8 bus	4	1 x Internal SlimSAS port	1	1 x OCuLink port	12Gb/s ports	
GRAO338	LSI SAS 3008	PCIe x8 Gen3 x8 bus	8	2 x SlimSAS ports	-	-	12Gb/s ports	
GRAO438	LSI SAS 3108	PCIe x8 Gen3 x8 bus	8	2 x SlimSAS ports	-	-	12Gb/s ports	
LSI RAID Controller Cards								
MegaRAID SAS 9380-8e	LSISAS3108 dual core RAID on Chip (ROC)	x8 lane PCI Express@ 3.0	-	-	8	2 x Mini-SAS HD SFF8644	Up to 12Gb/s per port	
MegaRAID SAS 9341-8i	LSISAS3008 PowerPC 476 controller @ 1.2 GHz	x8 lane PCI Express@ 3.0	8	2 x HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port	
MegaRAID SAS 9361-8i	LSISAS3108 dual core RAID on Chip (ROC)	x8 lane PCI Express@ 3.0	8	2 x HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port	
MegaRAID SAS 9440-8i	SAS3408 I/O controller (IOC)	x8 lane PCI Express@ 3.1	8	-	-	2 Mini-SAS HD x4 SFF-8643	12Gb/s SAS 3.0	
MegaRAID SAS 9460-8i	SAS3508 dual-core RAID-on-Chip (ROC)	x8 lane PCI Express@ 3.1	8	-	-	2 Mini-SAS HD x4 SFF-8643	12Gb/s SAS 3.0	
MegaRAID SAS 9460-16i	SAS3516 dual-core RAID-on-Chip (ROC)	x8 lane PCI Express@ 3.1	8	-	-	4 Mini-SAS HD x4 SFF-8643	12Gb/s SAS 3.0	
LSI Host Bus Adapters (HBAs)								
LSI SAS 9300-8i	SAS3008	x8 lane PCI Express@ 3.0	8	Passive copper	-	-	12Gb/s SAS 3.0	
LSI SAS 9400-8i	SAS3408	x8 lane PCI Express@ 3.1	8	-	-	2 Mini-SAS HD x4 SFF-8643	12Gb/s SAS 3.0	
PMC RAID Cards (Adaptac)								
Adaptac ASR-888SQ		8-lane PCIe Gen3	8	2 x Internal mini SAS HD (SFF-8643)	8	2 x external mini SAS HD (SFF-8644)	12Gb/s per port	
Microsemi RAID Cards								
SmartRAID 3154-8i	PM8204	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port	
SmartRAID 3154-16i	PM8236	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port	
Microsemi Host Bus Adapters								
HBA 1100-16i	PM8242	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port	
HBA 1100-24i	PM8238	8-Lane PCIe Gen3	24	6 x Internal, SFF-8643	-	-	12 Gb/s per port	
LAN Cards								
Product Name	Connector	System Interface Type		# of Ports	System Interface Type	Data rate	Note	
GIGABYTE LAN Cards								
GLN4751	QSFP+	PCIe x8 Gen3 x8	Single	40Gb/s per port	-	-	INTEL XL710	
GLN4222	RJ-45	PCIe x8 Gen3 x4	Dual	10Gb/s per port	-	-	INTEL X550-AT2	
GC-MNXE21	SFP+	PCIe x8 Gen3 x8	Dual	10Gb/s per port	-	-	Mellanox ConnectX-3	
GC-MLB21	SFP+	PCIe x8 Gen2 x8	Dual	10Gb/s per port	-	-	Broadcom BCM57810S	
GLN4314	RJ-45	PCIe x4 Gen2 x4	Quad	1Gb/s per port	-	-	INTEL i350-AM4	
GLN4121	RJ-45	PCIe x4 Gen3 x4	single	10Gb/s per port	-	-		
GLN4832	SFP+	PCIe x8 Gen2 x8	Dual	10Gb/s per port	-	-	INTEL 82599ES	

GLN4312	RJ-45	PCIe x4 Gen2 x4	Dual	1Gb/s per port	INTEL I350-AM2	
GLN4831	SFP+	PCIe x8 Gen2 x8	Single	10Gb/s per port	INTEL B2599EN	
Solarflare Onload Server Adapters						
SFN8522-PLUS	QSFP+	PCIe 3.1 x8	Dual	10Gb/s per port		
SFN8522-ScateOut Onload	QSFP+	PCIe 3.1 x8	Dual	10Gb/s per port		
Qlogic LAN Adapters						
GLE3442-CU-CK	SFP+	PCIe x8 Gen3 x8	Dual	10Gb/s per port		
Mellanox ConnectX						
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	SR	850	
LMEC PDGSFPPTLNS01	10Gb/1Gb	SFP+	N/A	SR	850	
LMEC PDGSFTSRL00	10Gb/1Gb	SFP+	N/A	SR	850	
WAVESPLITTER WST-SFP+SR-C	10Gb/1Gb	SFP+	N/A	SR	850	
Formerica TAS-A1NH1-P11 10GB SR 850nm 3.3V	10Gb/1Gb	SFP+	N/A	SR	850	
Active Optical Cables (AOC)						
Avago AFBR-7CER03Z	10Gb	SFP+	3M	N/A	850	
Avago AFBR-7CER07Z	10Gb	SFP+	7M	N/A	850	
Formerica TAS-A1NH8-XAE03 SFP+ AOC-03M	10Gb	SFP+	3M	N/A		
Direct Attach Copper (DAC)						
WAVESPLITTER WST-SFP+DACP0-2H	10G	SFP+	2.5M	N/A	N/A	