

MZ31-AR0 Qualification Vendor List Ver:1.2

Table with multiple sections: AMD CPU, Memory, Seagate HDD, WD HDD, HGST HDD, Toshiba HDD, SATA/SAS SSD, and GPU Card. Each section contains detailed product specifications including product name, type, vendor, form factor, capacity, interface speed, series, cache, RPM, encryption, and notes.

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 GTX 1080 Ti Gaming (passive heatsink) (Pascal)	2560	320 Gbps	4.5	12	180 W	Yes (2-way)	
GeForce GTX 1070 G1 Gaming (passive heatsink) (Pascal)	1920	256 Gbps	4.5	12	150 W	Yes (2-way)	
GeForce GTX 1060 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 Cards							
Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates
GIGABYTE Storage Cards							
GC-MSL2Z	LSI SAS 2008	PCIe- x8 Gen2 x8 bus	8	2 x Mini-SAS for 8x SAS	-	-	6Gb/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
CSA3548	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	-	-	8	2 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	-	-	12Gb/s ports
LSI RAID Controller Cards							
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)	-	-	Up to 12Gb/s per port
PMC RAID Cards (Adaptec)							
Adaptec RAID 6805T	-	8-Lane PCIe Gen2	8	2 x Internal, SFF-8087, Top-	-	-	6 Gb/s per port
Adaptec ASR-8885Q	-	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
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	100GbE			FCB and 40GbE
Solarflare Onload Server Adapters							
SFN7322F	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 PDGSFTSRL00	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	100-127ac 200-240ac	1000W 1600W	Desktop/Server	N/A		
FSP FSP1200-50AAG (Redundancy)							
FSP FSP1200-50AAG (Redundancy)	FSP	100-240ac	1200W	Desktop/Server	N/A		
LITEON PS-2751-5L							
LITEON PS-2751-5L	LITEON	100-240ac	750W	Desktop/Server	N/A		
DELTA DPS-600AB-1 D							
DELTA DPS-600AB-1 D	DELTA	100-240ac	600W	Desktop/Server	N/A		
FSP-YH-5651M (Redundancy)							
FSP-YH-5651M (Redundancy)	FSP	100-240Vac	565W	Desktop/Server	N/A		For R151-Z30 system
PS-2801-8L (Redundancy)							
PS-2801-8L (Redundancy)	LITEON	100-240Vac	800W	Desktop/Server	N/A		For R271-Z31 system
PCIe SSD							
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note
PCIe SSD							
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	2.5" SATA	PCIe(NVMe)	4TB		