

Please contact FAE support for below orange blocks

Memory (Memory actually maximum frequency will follow memory controller's spec of CPU you used)											
Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Frequency	TDP	Memory Types	Note
Ampere CPU											
Ampere CPU Q80-33						80	3.0 GHz	3.3 GHz	250	DDR4-3200	
Ampere CPU Q80-30						80	2.8 GHz	3.0 GHz	210	DDR4-3200	
Ampere CPU Q80-28						80	2.6 GHz	2.8 GHz	175	DDR4-3200	
Ampere CPU Q72-30						72	3.0 GHz	3.0 GHz	195	DDR4-3200	
Ampere CPU Q64-33						64	3.0 GHz	3.3 GHz	220	DDR4-3200	
Ampere CPU Q64-30						64	2.8 GHz	3.0 GHz	180	DDR4-3200	
Ampere CPU Q64-26						64	2.4 GHz	2.6 GHz	125	DDR4-3200	
Ampere CPU Q64-22						64	2.0 GHz	2.2 GHz	95	DDR4-3200	
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
RDIMM											
MTA36ASF4G72PZ-3G2E2	DDR4	Micron	16GB	Micron-Rambus	2Rx4	1.2v	3200MHz	ECC Registered	24	288-pin	
M393A4G43AB3-CWE	DDR4	Samsung	32GB	Samsung-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K40CB2-CTD6Q	DDR4	Samsung	16GB	Samsung-Montage	1Rx4	1.2v	2666MHz	ECC Registered	19	288-pin	
M393A8K40B22-CWD6Q	DDR4	Samsung	64GB	Samsung	2S2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin	
M393A8G40MB2-CTD7Q	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	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	
CT32G4RFD4266-2G6H1.001	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin	
HMA84GR7AFR4N-VKT3	DDR4	SKhynix	32GB	SKhynix-Montage	2Rx4	1.2v	2666MHz	ECC Registered	19	288-pin	
M393A2K43DB2-CVFBQ	DDR4	Samsung	16GB	Samsung-IDT	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
M393A4K40DB2-CVFBQ	DDR4	Samsung	32GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
M393A8G40AB2-CVFBY	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
CT16G4RFD8293.18FE1	DDR4	CRUCIAL	16GB	Micron	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA9ASF2G72PZ-2G9E1UI	DDR4	Micron	16GB	Micron-Rambus	1Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
CT32G4RFD4293-2G9E2.001	DDR4	CRUCIAL	32GB	Micron	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF4G72PZ-2G9E2TG	DDR4	Micron	32GB	Micron-Montage	2Rx4	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA18ASF4G72PDZ-2G9E1TI	DDR4	Micron	32GB	Micron-Montage	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
MTA36ASF8G72PZ-2G9E1TI	DDR4	Micron	64GB	Micron-Montage	2Rx4	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	
KSM29RD8/16HDR	DDR4	Kingston	16GB	SKhynix-Rambus	2Rx8	1.2v	2933MHz	ECC Registered	21	288-pin	
KSM29RD4/32HDR	DDR4	Kingston	32GB	SKhynix-Rambus	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	
HMA82GR7DJR8N-XN T8	DDR4	SKhynix	16GB	SKhynix-Rambus	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
HMA82GR7DJR8N-XN TG	DDR4	SKhynix	16GB	SKhynix-IDT	2Rx8	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	
CT16G4RFD832A-3G2E1.001	DDR4	Crucial	16GB	Micron-Rambus	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA9ASF2G72PZ-3G2E1TI	DDR4	Micron	16GB	Micron-Montage	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF4G72PDZ-3G2B2TI	DDR4	Micron	32GB	Micron-Montage	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA36ASF4G72PZ-3G2J3UI	DDR4	Micron	32GB	Micron-Rambus	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	
MTA36ASF8G72PZ-3G2E1VI	DDR4	Micron	64GB	Micron-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF4G72PDZ-3G2E1TI	DDR4	Micron	32GB	Micron	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
MTA18ASF2G72PDZ-3G2J3	DDR4	Micron	16GB	Micron-IDT	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A2K43DB3-CWEBQ	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	
M393A4K40DB3-CWECO	DDR4	Samsung	32GB	Samsung-Montage	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40DB3-CWEBQ	DDR4	Samsung	32GB	Samsung-IDT	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-CWEBQ	DDR4	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A8G40AB2-CWECO	DDR4	Samsung	64GB	Samsung-Montage	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393AAG40M32-CAEBQ	DDR4	Samsung	128GB	Samsung	2S2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4K40EB3-CWE	DDR4	Samsung	32GB	Samsung	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A4G43BB4-CWEBY	DDR4	Samsung	32GB	Samsung-IDT	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
M393A8G40BB4-CWE	DDR4	Samsung	64GB	Samsung	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RS8/16MER	DDR4	Kingston	16GB	Micron-Rambus	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RD4/32HDR	DDR4	Kingston	32GB	SKhynix-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	
KSM32RS4/32MER	DDR4	Kingston	32GB	Micron-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin	

AD4R3200716G22-BHYA	DDR4	ADATA	16GB	SKhynix-Montage	1Rx8	1.2v	3200MHz	ECC Registered	22	288-pin	
<b>HDD / U.2 / M.2 (HDD / U.2 may need RAID Card support)</b>											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
ST1000NX0313	SATA	Seagate	2.5"	512E	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	SN05
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	NN02
ST300MP0006	SAS	Seagate	2.5"	512n	300GB	12Gb/s	Exos 15E900 (Enterprise Performance 15K)	256MB	15000	N/A	
ST300MP0106	SAS	Seagate	2.5"	4Kn/512e	300GB	12Gb/s	Exos 15E900 (Enterprise Performance 15K)	256MB	15000	N/A	
ST2400MM0129	SAS	Seagate	2.5"	4Kn/512e	2TB	12Gb/s	Exos 10E2400 (Enterprise Performance 10K)	256MB	10000	N/A	C001
HUS726T6TALE6L4	SATA	WD	3.5"	4Kn/512e	6TB	6Gb/s	Ultrastar® DC HC330	256MB	7200	N/A	FW-984
AL15SEB24EQ	SAS	Toshiba	2.5"	512e	2.4TB	12Gb/s	Performance	128MB	10500	N/A	FW-0102
MTFDDAK3T8DS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	3.84TB	6Gb/s					
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					
MZ-7L1H1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s					
SSDSC2K6019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					
SSDSC2K6019T801 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s					
SSDSC2K480G801 D3-S4510 Series	SSD	Intel	2.5"	SATA	480GB	6Gb/s					
SSDSC2K480G801 D3-S4610 Series	SSD	Intel	2.5"	SATA	480GB	6Gb/s					
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s					
KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s					
MZ7LH7T6HMLA-00005 PM 883	SSD	Samsung	2.5"	SATA	7.68TB	6Gb/s					
MZIL7T76HMLA-00007 PM1643 Series	SSD	Samsung	2.5"	SAS	7.68TB	12Gb/s					
XS960SE70084 Nytro 3332 Series	SSD	Seagate	2.5"	SAS	960GB	12Gb/s					
SSDPE2KE032T801 P4610 Series	U.2	Intel	2.5"	SFF8639(NVMe)	3.2TB	PCIe Gen3 x4					
SSDPE2KX020T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	2TB	PCIe Gen3 x4					
SSDPE2KX010T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	1TB	PCIe 3.1 x4, NVMe	Intel SSD 2.5" DC P4510 Series (1.0TB, PCIe 3.1x4, 3D2, TLC)				
SSDPE2KX040T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	4TB	PCIe 3.1 x4, NVMe	Intel® SSD DC P4510Series, (4.0TB, 2.5in PCIe™ 3.1x4, 3D2, TLC)				
MZWL3T3THAJQ PM1725b Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	PCIe Gen3 x4					
MZQLW1T9HJMP PM963 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	PCIe Gen3 x4					
MZ-QLB1T9N 983 DCT Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	PCIe Gen3 x4					
MZWLJ3T8HBL5 PM1733 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.84TB	PCIe Gen4 x4					
MZQLB1T9HAJR-00007 Samsung 983	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	PCIe Gen3 x4					
MTFDHBE1T6TDG 7300 Max Series	U.2	Micron	2.5"	SFF8639(NVMe)	1.6TB	PCIe Gen3 x4	MTFDHBE1T6TDG-1AW1ZABYY				
KCD51LUG960G CD5 Series	U.2	KIOXIA	2.5"	SFF8639(NVMe)	960GB	PCIe Gen3 x4					
PS5012-E12	U.2	PHISON	2.5"	SFF8639(NVMe)	1.92TB	PCIe Gen3 x4					
MZ7LH7T6HMLA-00005 Samsung 883	SSD	Samsung	2.5"	SATA	960GB	6Gb/s					
MZ-QLB960NE Samsung 883	U.2	Samsung	2.5"	SFF8639(NVMe)	960GB	PCIe Gen3 x4					
KCM61RUL3T84 CM6-R Series	U.3	KIOXIA	2.5"	SFF8639(NVMe)	3.84TB	PCIe Gen4 x4					
MTFDHGB3T8TDF 3840GB 7300 Pro Series	M.2	Micron	22110	PCIe(NVMe)	3840GB	PCIe Gen3 x4					
Phison PS5016-E16 & PS5019-E19	M.2	Gigabyte	2280	PCIe(NVMe)	1TB	PCIe Gen4 x4					
MZ1L23T8HBLA-00A07	M.2	Samsung	22110	PCIe(NVMe)	3.84TB	PCIe Gen4 x4					
MZ1LB960HAJQ-00007	M.2	Samsung	22110	PCIe(NVMe)	960GB	PCIe Gen3 x4					
MZ1L21T9HCLS-00A07 PM9A3	M.2	Samsung	22110	PCIe(NVMe)	1.92TB	PCIe Gen3 x4					
<b>M.2 Expansion PCIe Card</b>											
Product Name	Type	Vendor	Form Factor	Interface	Max. Channels	Interface Speed	Note				
CMT4032	PCIe	Gigabyte	22110	PCIe(NVMe)	2	PCIe Gen3 x8					
CMT4034	PCIe	Gigabyte	22110	PCIe(NVMe)	4	PCIe Gen3 x16					
<b>GPGPU Card (GPGPU server only)</b>											
Product Name	Processor Cores	Memory Bandwidth	VRAM	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note			
T4 (TURING)	2560	320 GB/s	16GB			70 W					
A100 (Ampere)	6912	1555 GB/s	40GB			250 W					
<b>RAID Cards</b>											
Product Name	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	Note	Support type	RAID	
<b>GIGABYTE Storage Cards</b>											
CRA3338	LSI SAS 3008	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			SATA / SAS	Software RAID
CRAO438	LSI SAS 3108	OCF PCIe Gen3 x8	8	2 x 4 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			SATA / SAS	Hardware RAID
CRAO338	LSI SAS 3008	OCF PCIe Gen3 x8	8	2 x 4 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			SATA / SAS	Software RAID
CRS2021	Asmedia	PCIe (Gen3x2)2	8	2 x 4 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			SATA	NO RAID Function
<b>LSI RAID Controller Cards</b>											
MegaRAID SAS 9361-8i	LSI SAS3108 dual core RAID on Chip (BCC)	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			SATA / SAS	Hardware RAID
MegaRAID SAS 9460-8i	LSI SAS3308 dual-core RAID-on-Chip (BCC)	PCIe Gen3 x8	8	2 x Mini-SAS HD SFF-8643	-	-	Up to 12Gb/s per port			SATA / SAS	Hardware RAID
<b>LSI Host Bus Adapters (HBAs)</b>											
LSI SAS 9500-8i	SAS3808	PCIe Gen4 x8	8	1 x 8 SlimSAS SFF-8654	-	-	Up to 12Gb/s per port			SATA / SAS / NVME	NO RAID Function
LSI SAS 9305-16i	SAS3224	PCIe Gen3 x8	16	6 Mini-SAS HD SFF8643	-	-	Up to 12Gb/s per port			SATA / SAS	NO RAID Function
LSI SAS 9305-24i	SAS3224	PCIe Gen3 x8	24	6 Mini-SAS HD SFF8643	-	-	Up to 12Gb/s per port			SATA / SAS	NO RAID Function
Microsemi Adaptec HBA 1100-16i	Adaptec HBA 1100-16i	PCIe Gen3 x8	16	6 Mini-SAS HD SFF8643	-	-	Up to 12Gb/s per port			SATA / SAS	NO RAID Function
Microsemi Adaptec 2100-8i	SmartHBA 2100	PCIe Gen3 x8	8	6 Mini-SAS HD SFF8643	-	-	Up to 12Gb/s per port			SATA / SAS	Software RAID
<b>LAN Cards</b>											
Product Name	Connector	System Interface Type	# of Ports	Data Rate	Note						
<b>GIGABYTE LAN Cards</b>											
CLN4312	RJ-45	PCIe Gen2 x4	Dual	1Gb/s per port							
<b>Intel 1GbE</b>											
Intel® Ethernet Converged Network Adapter I350-T2V2	RJ-45	PCIe Gen2 x4	Dual	1Gb/s per port							
<b>Mellanox ConnectX</b>											
MCX4421A-AQON	SFP28	OCF PCIe Gen3 x8	Dual	25Gb/s per port			Mellanox ConnectX-4 Lx EN / Support OCP 2.0				UEFI ARM Disabled
MCX4421A-ACAN	SFP28	OCF PCIe Gen3 x8	Dual	25Gb/s per port			Mellanox ConnectX-4 Lx EN / Support OCP 2.0				UEFI ARM Disabled without host management
MCX4421A-AQON	SFP28	OCF PCIe Gen3 x8	Dual	25Gb/s per port			Mellanox ConnectX-4 Lx EN / Support OCP 2.0				UEFI ARM Disabled
MCX4421A-ACUN	SFP28	OCF PCIe Gen3 x8	Dual	25Gb/s per port			Mellanox ConnectX-4 Lx EN / Support OCP 2.0				UEFI ARM Disabled without host management
MCX4121A-ACAT	SFP28	PCIe Gen3 x8	Dual	25Gb/s per port			Mellanox ConnectX-4 Lx EN				UEFI ARM Disabled
MCX4431A-GCAN	QSFP28	OCF PCIe Gen3 x8	Single	50Gb/s per port			Mellanox ConnectX-4 Lx EN / Support OCP 2.0				UEFI ARM Disabled
MCX623105AN-CDAT	QSFP56	PCIe Gen4 x16	Single	100Gb/s per port			ConnectX®-6 Dx No Crypto, No Secure Boot				
MCX623106AN-CDAT	QSFP56	PCIe Gen4 x16	Dual	100Gb/s per port			ConnectX®-6 Dx No Crypto, No Secure Boot				
<b>Mellanox VPI Adapter Cards</b>											
MCX653106A-HDAT	QSFP56	PCIe Gen4 x16	Dual	200Gb/s per port			Mellanox ConnectX-6 Ex VPI (InfiniBand)				
MCX653105A-HDAT	QSFP56	PCIe Gen4 x16	Single	200Gb/s per port			Mellanox ConnectX-6 Ex VPI (InfiniBand)				

