

M393A8G40AB2-CWEBQ	DDR4-RDIMM	Samsung	64GB	Samsung-IDT	2Rx4	1.2v	3200MHz	ECC	22	288-pin
M393AAG40M32-CAEBQ	DDR4-RDIMM	Samsung	128GB	Samsung	2S2Rx4	1.2v	3200MHz	ECC	22	288-pin
HMA81GR7CJR8N-XN TG	DDR4-RDIMM	SKhynix	8GB	SKhynix-IDT	1Rx8	1.2v	3200MHz	ECC	22	288-pin
HMA82GR7CJR8N-XN T4	DDR4-RDIMM	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin
HMA82GR7CJR8N-XN T4	DDR4-RDIMM	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin
HMA82GR7DJR8N-XN T8	DDR4-RDIMM	SKhynix	16GB	SKhynix-Rambus	2Rx8	1.2v	3200MHz	ECC	22	288-pin
HMA82GR7CJR8N-XN TG	DDR4-RDIMM	SKhynix	16GB	SKhynix	2Rx8	1.2v	3200MHz	ECC Registered	22	288-pin
HMA84GR7DJR4N-XN T4	DDR4-RDIMM	SKhynix	32GB	SKhynix-Rambus	2Rx4	1.2v	3200MHz	ECC	22	288-pin
HMA84GR7CJR4N-XN TG	DDR4-RDIMM	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin
HMA84GR7CJR4N-XN T8	DDR4-RDIMM	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin
HMA84GR7CJR4N-XN T4	DDR4-RDIMM	SKhynix	32GB	SKhynix	2Rx4	1.2v	3200MHz	ECC Registered	22	288-pin
HMAA8GR7AJR4N-XN TG	DDR4-RDIMM	SKhynix	64GB	SKhynix-IDT	2Rx4	1.2v	3200MHz	ECC	22	288-pin
TR416G32S422-XNC	DDR4-RDIMM	V-color	16GB	SKhynix-Rambus	1Rx4	1.2v	3200MHz	ECC Registered	22	288-pin

Storage

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encription	FW
M.2											
EPX-KW960 EPX Series	M.2	LITE-ON	22110	PCIe(NVMe)	960GB						
MZ-1LB1T9N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	1.92TB						
MZ-1LB960N 983 DCT Series	M.2	Samsung	22110	PCIe(NVMe)	960GB						
SSDPEKKA010T701 P3100 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB						
SSDPEKKA256G701 P3100 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB						
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB						
SSDPELKX010T801 P4511 Series 1TB	M.2	Intel	22110	PCIe(NVMe)	1TB						
SSDPEKKA010T801 P4101 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB						
IM2P33F8-256GD	M.2	ADATA	2280	PCIe(NVMe)	256GB	PCIe(NVMe)					
IM2P33F8-256GD	M.2	ADATA	2280	PCIe(NVMe)	256GB	PCIe(NVMe)					
PCIe											
SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB	PCIe	Intel	PCI-E 3.0	PCIe(NVMe)	4TB	-					
Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB	PCIe	Netlist	PCI-E 3.0	PCIe(NVMe)	3.2TB	-					
Samsung PM1725a MZPLL1T6HEHP PCIe Gen3 x8 1.6TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	1.6TB	-					
SATA											
MTFDDAK1T9TDD-1AT1ZABYY (5200 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s					
SRE100-480G00210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s					
SRE100-960G00210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s					
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s					
ST2000NM0008	SATA	Seagate	3.5"	512n	2TB	6Gb/s	EXOS 7E2	128MB	7200	N/A	
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A	
ST8000NM000A	SATA	Seagate	3.5"	512e	8TB	6Gb/s	EXOS 7E8	256MB	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	
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s					
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s					
MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A	
MG04ACAB00E	SATA	Toshiba	3.5"	512e	6TB	6Gb/s	Capacity	128MB	7200	N/A	
MG07ACA14TE	SATA	Toshiba	3.5"	512e	14TB	6Gb/s	Capacity	256MB	7200	N/A	
KHK61RSE960G	SATA	Toshiba	2.5"	512e	960GB	6Gb/s					
WD4000FYYZ-01UL1B2	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200	N/A	
U.2											
NS1551U711T9 Netlist N1551 D2 Series	U.2	Netlist	2.5"	SFF8639(NVMe)	1.92TB	-					
NS1951UF13T8 Netlist N1951 D2 Series	U.2	Netlist	2.5"	SFF8639(NVMe)	3.84TB	-					
MZ-QLB1T9N 983 DCT Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	-					
MZWLL3T2HAJQ PM1725b Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	-					
KCD51LUG960G CD5 Series	U.2	Toshiba	2.5"	SFF8639(NVMe)	960GB	-					
MZQLW1T9HMJP PM963 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	-					
MZWLL3T2HMJP PM1725a Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	-					
MTFDHAL3T2TCU 9200 Series	U.2	Micron	2.5"	SFF8639(NVMe)	3.2TB	-					

RAID Card

Product Name	RAID-on-Chip Controller	Vendor	Host Bus Type	Internal Ports	Internal Connectors	Extrenal Ports	External Connectors	Data Transfer Rate	Note
Gigabyte									
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	-
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 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	-
Microsemi									
SmartHBA 2100-8i	PM8222	Microsemi	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port	-
SmartRAID 3154-16i	PM8236	Microsemi	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port	-
SmartRAID 3154-8i	PM8204	Microsemi	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port	-
LAN Card									
Product Name	Connector	Vendor	System Interface Type	# of Ports	Data Rate	Note			

Broadcom							
BCM957414A4142CC	SFP28	Broadcom	PCIe 3.0 x8	Dual	25Gb/s per port	BCM57414	
Gigabyte							
GLN4121	RJ-45	Gigabyte	PCIe x8 Gen3 x4	Single	10Gb/s per port	INTEL X550-AT	
CLN4222	RJ-45	Gigabyte	PCIe x8 Gen3 x4	Dual	10Gb/s per port	INTEL X550-AT2	
CLN4224	RJ-45	Gigabyte	PCIe x8 Gen3 x4	Quad	10Gb/s per port	INTEL X550-AT2 (Condition)	
CLN4312	RJ-45	Gigabyte	PCIe x4 Gen2 x4	Dual	1Gb/s per port	INTEL I350-AM2	
CLN4314	RJ-45	Gigabyte	PCIe x4 Gen2 x4	Quad	1Gb/s per port	INTEL I350-AM2 (Condition)	
GLN4751	QSFP+	Gigabyte	PCIe x8 Gen3 x8	Single	40Gb/s per port	INTEL XL710	
CLN4752	QSFP+	Gigabyte	PCIe x8 Gen3 x8	Dual	40Gb/s per port	INTEL XL710	
CLN4831	SFP+	Gigabyte	PCIe x8 Gen2 x8	Single	10Gb/s per port	INTEL 82599EN	
CLN4832	SFP+	Gigabyte	PCIe x8 Gen2 x8	Dual	10Gb/s per port	INTEL 82599ES	
CLN4C42	SFP28	Gigabyte	PCIe Gen3 x16	Dual	25Gb/s per port	Mellanox ConnectX-4 (Condition)	
GLN4C44	SFP28	Gigabyte	PCIe Gen3 x16	Quad	25Gb/s per port	Mellanox ConnectX-4 (Condition)	
CLN4M34	SFP28	Gigabyte	PCIe Gen3 x16	Quad	10Gb/s per port	Mellanox ConnectX-4 (Condition)	
Intel							
Intel Ethernet Converged Network Adapter X550-T2	RJ-45	Intel_10GbE	PCIe v3.0 (8.0 GT/s)	Dual	10Gb/s per port	-	
Intel Ethernet Converged Network Adapter X710-T4	RJ-45	Intel_10GbE	PCIe v3.0 (8.0 GT/s)	Quad	10Gb/s per port	-	
Intel Ethernet Converged Network Adapter XL710-QDA	QSFP+	Intel_40GbE	PCIe v3.0 (8.0 GT/s)	Dual	40Gb/s per port	-	
Intel Ethernet Network Adapter XXV710-DA2	SFP28	Intel_25GbE	PCIe v3.0 (8.0 GT/s)	Dual	25Gb/s per port	-	
Intel® Ethernet Converged Network Adapter X550-T2	RJ-45	Intel	PCIe v3.0 (8.0 GT/s)	Dual	10Gb/s per port	-	
Intel True Scale Fabric QLE7342	Quad small form-factor pluggable (QSFP)	Intel_40GbE	PCIe Gen2 x8	Dual	100G/20G/40 Gb/s per port	-	
Mellanox							
MCX4121A-ACAT	SFP28	Mellanox ConnectX	PCIe Gen3 x8	Dual	25Gb/s per port	Mellanox ConnectX-4 Lx EN	
MCX516A-CDAT	QSFP28	Mellanox ConnectX	PCIe 4.0 x16	Dual	100Gb/s per port	Mellanox ConnectX-5 Ex EN	
Mellanox VPI							
MCX555A-ECAT	QSFP28	Mellanox VPI	PCIe 3.0 x16	Single	100Gb/s per port	Mellanox ConnectX-5 VPI (InfiniBand)	
MCX653105A-HDAT	QSFP56	Mellanox VPI	PCIe 4.0 x16	Single	200Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)	
MCX653106A-ECAT	QSFP56	Mellanox VPI	PCIe 4.0 x16	Dual	100Gb/s per port	Mellanox ConnectX-6 Ex VPI (InfiniBand)	
Qlogic							
QL41132HLCU-SP	SFP28	Qlogic	PCIe x8 Gen3 x8	Dual	10Gb/s per port	-	
QLE3442-CU-CK	SFP+	Qlogic	PCIe x8 Gen3 x8	Dual	10Gb/s per port	-	
QLE3442-RJ-CK	RJ-45	Qlogic	PCIe x8 Gen3 x8	Dual	10Gb/s per port	-	
M.2 Expansion PCIe Card							
Product Name	Type	Vendor	Form Factor	Interface	Max. Channels	Interface Speed	Note
CMT2014	PCIe	Gigabyte	22110	PCIe(NVMe)	4	Gen3 x 16bus	-
CMT4032	PCIe	Gigabyte	22110	PCIe(NVMe)	2	Gen3 x 8bus	-
CMT4034	PCIe	Gigabyte	22110	PCIe(NVMe)	4	Gen3 x 16bus	-
USB							
Product Name	Type	Vendor	Spec	Capacity	Note		
USB 3.1 Type A							
ADATA SUPERIOR S102 PRO 8GB	Flash	ADATA	8G	-			
S1-DS3-Plus	Device	CyberSLIM	-	-			
PURE CLASSIC X176B1FWB075	HDD	Gigabyte	500G	-			
MB981U3-1S	Device	ICYDOCK	-	-			
NA317U+	Device	ineo	-	-			
NU EBC113	Blue-ray	NU	-	-			
NU ESW863 8X SLIM	DVD	NU	-	-			
GoFlex STAA500305	HDD	Seagate	500G	-			
SST-TS13	Device	Silver Stone	-	-			
U310-SB3(6G)	Device	STARDOM	-	-			
TOSHIBA CANWIO BASIC	HDD	Toshiba	500G	-			