

"R270-T60" Qualification Vender List Ver:2.0											
Memory											
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
RDIMM											
75.CA3G0.G000B	DDR4	Apacer	8GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
CT4G4RFS8213.9FA2	DDR4	CRUCIAL	4GB	Micron	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
CT8G4RFD8213.18FA1	DDR4	CRUCIAL	8GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
CT8G4RFS424A.18FB1	DDR4	CRUCIAL	8GB	Micron	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT16G4RFD4213.36FA2	DDR4	CRUCIAL	16GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
CT16G4RFD424A.36FB1	DDR4	CRUCIAL	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT16G4RFD824A.18FA1	DDR4	CRUCIAL	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT16G4RFS424A.18FB1	DDR4	CRUCIAL	16GB	Micron	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT16G4RFD824A.18FB1	DDR4	CRUCIAL	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT32G4RFD4213.36FA1	DDR4	CRUCIAL	32GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
CT32G4RFD424A.36FA1	DDR4	CRUCIAL	32GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT32G4RFD424A.36FB1	DDR4	CRUCIAL	32GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
M4R0-8GSQEC SJ	DDR4	INNODISK	8GB	Samsung	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
M4R0-AGS3ECSJ	DDR4	INNODISK	16GB	Samsung	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
M4R0-AGS1BCSJ	DDR4	INNODISK	16GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
M4R0-BGS3GCSJ	DDR4	INNODISK	32GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
KVR21R15S4/8	DDR4	Kingston	8GB	SK hynix	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
KVR24R17S4/16MA	DDR4	Kingston	16GB	Micron	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
KVR24R17S8/8MA	DDR4	Kingston	8GB	Micron	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA9ASF51272PZ-2G1A2HG	DDR4	Micron	4GB	Micron	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
MTA18ASF1G72PDZ-2G1A1JG	DDR4	Micron	8GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
MTA18ASF1G72PZ-2G3B1RK	DDR4	Micron	8GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA36ASF2G72PZ-2G1A2IG	DDR4	Micron	16GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
MTA18ASF2G72PDZ-2G3A1IG	DDR4	Micron	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA36ASF2G72PZ-2G3B1QK	DDR4	Micron	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA18ASF2G72PZ-2G3B1IG	DDR4	Micron	16GB	Micron	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA18ASF2G72PDZ-2G3B1RG	DDR4	Micron	16GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA36ASF4G72PZ-2G1A1IG	DDR4	Micron	32GB	Micron	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
MTA36ASF4G72PZ-2G3A1IG	DDR4	Micron	32GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
MTA36ASF4G72PZ-2G3B1MG	DDR4	Micron	32GB	Micron	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
HMA451R7MFR8N-TF	DDR4	SK Hynix	4GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
HMA42GR7MFR4N-TF TD	DDR4	SK Hynix	16GB	SK hynix	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
HMA81GR7AFR8N-UH TD	DDR4	SK Hynix	8GB	SK hynix	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
HMA84GR7MFR4N-UH TD AA 1551(CPC7G)	DDR4	SK Hynix	32GB	SK hynix	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
HMA84GR7MFR4N-UH TD AA 1551(CPC7G)	DDR4	SK Hynix	32GB	SK hynix	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
M393A1G40EB1-CRC	DDR4	Samsung	8GB	Samsung	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
M393A2K40BB0-CPB	DDR4	Samsung	16GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
M393A2K40BB1-CRC	DDR4	Samsung	16GB	Samsung	1R	1.2v	2400MHz	ECC Registered	17	288-pin	
M393A2K43BB1-CRC0Q	DDR4	Samsung	16GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
M393A4K40BB0-CPB	DDR4	Samsung	32GB	SKhynix	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
M393A4K40BB1-CRC0Q	DDR4	Samsung	32GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
T4C8R10S61159A	DDR4	TeamGroup	4GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
T4D6R10S62000	DDR4	TeamGroup	8GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
T4E1R10S62000	DDR4	TeamGroup	16GB	Samsung	2R	1.2v	2133MHz	ECC Registered	15	288-pin	
VP9MR2G7228JBJSB	DDR4	Viking	16GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	

VP9MR4G7224JBJSB	DDR4	Viking	32GB	Samsung	2R	1.2v	2400MHz	ECC Registered	17	288-pin	
CT4G4WFS8213.9FA1	DDR4	Crucial	4GB	Micron	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CT8G4WFD8213.18FA1	DDR4	Crucial	8GB	Micron	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CT8G4WFD824A.18FB1	DDR4	Crucial	8GB	Micron	2R	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
MTA18ASF1G72AZ-2G3B1ZI	DDR4	Micron	8GB	Micron	2R	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
KVR21E15S8/4HA	DDR4	Kingston	4GB	SK hynix	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
PED42133C158GV5	DDR4	Panram	8GB	SKhynix	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A1G43DB0-CPB	DDR4	Samsung	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A2K43BB1-CPB	DDR4	Samsung	16GB	Samsung	2R	1.2V	2133MHz	ECC Unbuffer	15	288Pin	
T4D4C10S61163	DDR4	TeamGroup	8GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M393A1G40DB0-CPB	DDR4	SAMSUNG	8GB	Samsung	1R	1.2v	2133MHz	ECC Registered	15	288-pin	
KVR24E17S8/8MA	DDR4	Kingston	8GB	Micron	1Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
KVR24E17D8/16MA	DDR4	Kingston	16GB	Micron	2Rx8	1.2v	2400MHz	ECC Unbuffer	17	288-pin	
TR416G24S417	DDR4	V-color	16GB		1Rx4	1.2v	2400MHz	ECC Registered		288-pin	
TR432G24D417	DDR4	V-color	32GB		2Rx4	1.2v	2400MHz	ECC Registered		288-pin	
CT8G4RFS824A.2G3B1	DDR4	Crucial	8GB	Micron	1R X8	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
MTA9ASF1G72PZ-2G3B1MG	DDR4	Micron	8GB	Micron-Montage	1R X8	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
M4R0-8GSSBCSJ	DDR4	Innodisk	8GB		2Rx8	1.2v	2400MHz	ECC Registered		288-pin	
CT32G4RFD424A.2G3B1	DDR4	Crucial	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Just test this DIMM to cover
CT32G4RFD424A.36FB1	DDR4	Crucial	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above
MTA36ASF4G72PZ-2G3B1MG	DDR4	Micron	32GB	Micron	2R X4	1.2v	2400MHz	ECC Registered	17	288-pin	Same as above

**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											
ST9250610NS	SATA	Seagate	2.5"	512	250GB	6Gb/s	Constellation 2	64MB	7200	N/A	
ST91000640NS (Remark: Must disable SSC function first for use, please connect HDD vender)	SATA	Seagate	2.5"	512	1TB	6Gb/s	Constellation 2	64MB	7200	N/A	
ST1000NX0313 (Remark: Must disable SSC function first for use, please connect HDD vender)	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	
ST1000NX0353	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	
ST2000NX0403	SATA	Seagate	2.5"	512n	2TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	
ST1000NX0423	SATA	Seagate	2.5"	512n	1TB	6Gb/s	Enterprise Capacity V.3	128MB	7200	N/A	
Seagate Enterprise Capacity 3.5 HDD											
ST4000NM0033 (Remark: Must disable SSC function first for use, please connect HDD vender)	SATA	Seagate	3.5"	512N	4TB	6Gb/s	ES.3	128MB	7200	N/A	

ST8000NM0055 (Remark: Must disable SSC function first for use, please connect HDD vendor)	SATA	Seagate	3.5"	512e	8TB	6Bb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST8000NM0016	SATA	Seagate	3.5"	512e	8TB	12Gb/s	Performance	256MB	7200	N/A	SNC0
ST10000NM0146	SATA	Seagate	3.5"	4Kn	10TB	6Gb/s	Enterprise Capacity V.6	256MB	7200	N/A	
ST10000NM0166	SATA	Seagate	3.5"	4Kn	10TB	6Gb/s	Enterprise Capacity V.6	256MB	7200	N/A	
ST10000NM0186	SATA	Seagate	3.5"	4Kn	10TB	6Gb/s	Enterprise Capacity V.6	256MB	7200	N/A	
ST8000NM0045	SATA	Seagate	3.5"	4Kn	8TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST8000NM0115	SATA	Seagate	3.5"	4Kn	8TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST8000NM0145	SATA	Seagate	3.5"	4Kn	8TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST6000NM0125	SATA	Seagate	3.5"	4Kn	6TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST6000NM0185	SATA	Seagate	3.5"	4Kn	6TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
ST6000NM0265	SATA	Seagate	3.5"	4Kn	6TB	6Gb/s	Enterprise Capacity V.5	256MB	7200	N/A	
<b>TOSHIBA HDD</b>											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	
MG04ACA600E	SATA	Toshiba	3.5"	512e	6TB	6Gb/s	Enterprise Capacity HDD	128MB	7200	N/A	
MG04ACA500E	SATA	Toshiba	3.5"	512e	5TB	6Gb/s	Enterprise Capacity HDD	128MB	7200	N/A	
MG05ACA800E	SATA	Toshiba	3.5"	512e	8TB	6Gb/s	Enterprise Capacity	128MB	7200	N/A	GX1A
MG05ACA800A	SATA	Toshiba	3.5"	4Kn	8TB	6Gb/s	Capacity	128MB	7200	N/A	GX1A
MG04ACA100N	SATA	Toshiba	3.5"	512e	1TB	6Gb/s	Capacity	128MB	7200	N/A	A0
<b>WD HDD</b>											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	
Datacenter											
WD600PF4PZ-49P0AM0	SATA	WD	3.5"	512e	6TB	6Gb/s	WD Ae	64MB	5760	N/A	
WD4000FYYZ-01UL1B2	SATA	WD	3.5"	512N	4TB	6Gb/s	WD Re	64MB	7200	N/A	
Workstation											
WD2500BHTZ-04JCPV0	SATA	WD	2.5"	512	250GB	6Gb/s	WD VelociRaptor	64MB	10K	N/A	
WD6000BLHX-01V7BV0	SATA	WD	2.5"	512	600GB	6Gb/s	WD VelociRaptor	32MB	10K	N/A	
<b>HGST HDD</b>											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	
Enterprise Hard Drives											
HUS724040ALA640	SATA	HGST	3.5"	512N	4TB	6Gb/s	Ultrastar 7K4000	64MB	7200	N/A	
HUH728080ALE604	SATA	HGST	3.5"	512e	8TB	6Gb/s	Ultrastar He8	128MB	7200	N/A	
<b>SSD</b>											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note			

Hard drive								
XF1212-1A0512	SSD	Seagate	2.5"	SATA	480GB	6Gb/s	RL04	
ASX1000LS3-100GM	SSD	ADATA	2.5"	SATA	100GB	6Gb/s	5.2.0	
ASX1000LS7-240GM	SSD	ADATA	2.5"	SATA	240GB	6Gb/s	5.8.2	
SDLF1CRR-019T-1HA1	SSD	SanDisk	2.5"	SATA	1.92TB	6Gb/s	ZR04	
Transceiver / AOC / DAC								
Product Name / Product Number	Speed	Form Factor	Length	Connector type	nominal optical			Note
Transceiver								
DELL FTLX8571D3BCL	10Gb	SFP+	N/A	LC	850			
Finisar FTLX8571D3BCL	10Gb	SFP+	N/A	LC	850			
Formerica TAS-A1NH1-P11	10Gb	SFP+	N/A	LC	850			
Formerica TAS-A1NH1-PAH	10Gb	SFP+	N/A	LC	850			
Avago AFBR-709DMZ	10Gb/1Gb	SFP+	N/A	LC	850			
DELL AFBR-79E4Z-D-FT1	40Gb	QSFP+	N/A	LC	850			
Formerica TQS-Q1LH9-2CA	40Gb	QSFP+	N/A	LC	850			
PCL A0000082	40Gb	QSFP+	N/A	LC	850			
JDSU JQP-04SRAB1	40Gb	QSFP+	N/A	LC	850			
WAVESPLITTER WST-QSFP+SR4-C	40Gb	QSFP+	N/A	LC	850			
WAVESPLITTER WST-QSFP+eSR4-C	40Gb	QSFP+	N/A	LC	850			
Avago AFBR-79EIDZ	40/10Gb	QSFP+	N/A	LC	850			
Avago AFBR-7CER03Z	10Gb	SFP+	3M	N/A	850			
Avago AFBR-7CER07Z	10Gb	SFP+	7M	N/A	850			
Formerica TAS-A1NH8-XAE03	10Gb	SFP+	3M	N/A	850			
UMEC PDGQSQC020MX	40Gb	QSFP+	20M	N/A	850			
WAVESPLITTER WST-QSFP+AOC-C16 40G Base AOC 16M	40Gb	QSFP+	16M	N/A	850			
AMPHENOL 586710005 rev.G	10Gb	SFP+	10M	N/A	850			
FCI 10110818-3010LF	10Gb	SFP+	1M	N/A	850			
FCI 10110818-3030LF	10Gb	SFP+	3M	N/A	850			
FCI 10110818-4070HFLF	10Gb	SFP+	10M	N/A	850			
Finisar FTLX8574D3BCV	10Gb	SFP+	N/A	LC	850			
Finisar FTLX8574D3BCL	10Gb	SFP+	N/A	LC	850			
MOLEX 747524501	10Gb	SFP+	5M	N/A	850			
MOLEX 747524701	10Gb	SFP+	7M	N/A	850			
USB Device								
Product Name	Type	Vendor	Capacity					Note
IN-TECH 16GB	Flash	IN-TECH	16G					
Verico Evolution Lite S 16GB	Flash	Verico	16G					
SILICON POWER BLAZE B10 16GB	Flash	SILICON	16G					
ADATA SUPERIOR S102 PRO 16GB	Flash	ADATA	16G					
Transceiver / AOC / DAC								
Product Name / Product Number	Speed	Form Factor	Length	Connector type	nominal optical wavelength(nm)			Note
LSI Host Bus Adapters (HBAs)								
MOLEX 747529004	10Gb	SFP+	10M	N/A	850			
Mellanox MC2207128-003	40Gb	QSFP+	3M	N/A	850			
JPC P3001U201000-9	40Gb	QSFP+	1M	N/A	850			
JPC P3001U203000-6	40Gb	QSFP+	3M	N/A	850			
JPC P3001U407000-6	40Gb	QSFP+	3M	N/A	850			
Mellanox MC2207130-001 passive copper cable	56G	QSFP	1M	N/A	850			for Mellanox IB card

RAID Cards									
Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	FW	Note
GIGABYTE Storage Cards									
CRA3338	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	12Gb/s ports		
LSI RAID Controller Cards									
MegaRAID SAS 9361-8i	LSISAS3108 dual core RAID on Chip (ROC)	x8 lane PCI Express® 3.0	8	2 HD Mini-SAS SFF8643 (Horizontal mount)	-	-	Up to 12Gb/s per port		
LAN Cards									
Product Name	Connector	Power consumption	FW	# of Ports	System Interface Type	Data rate	Note		
GIGABYTE LAN Cards									
CLN4831	SFP+			Single	PCIe x8 Gen2 x8	10Gb/s per port	INTEL 82599EN		
CLN4832	SFP+			Dual	PCIe x8 Gen2 x8	10Gb/s per port	INTEL 82599ES		
CLN4522	RJ-45			Dual	PCIe x8 Gen2 x8	10Gb/s per port	INTEL X540		
CLN4751	QSFP+			Single	PCIe x8 Gen3 x8	40Gb/s per port	INTEL XL710		
CLN4752	QSFP+			Dual	PCIe x8 Gen3 x8	40Gb/s per port	INTEL XL710		
CLN4312	RJ-45			Dual	PCIe x4 Gen2 x4	40Gb/s per port	INTEL I350-AM4		
CLN4314	RJ-45			Quad	PCIe x4 Gen2 x4	40Gb/s per port	INTEL I350-AM4		
GC-MNXE21	SFP+	-		Dual	PCIe x8 Gen3 x8	10Gb/s per port			
Intel® Ethernet Server Adapter I350-T4	RJ-45	5 W		Quad	PCIe v2.1 (5.0GT/s)	1Gb/s per port			
Intel_10GbE									
Intel® Ethernet Converged Network Adapter X540-T1	RJ-45	-		Single	PCIe 2.1 (5.0 GT/s)	10Gb/s per port			
Intel® Ethernet Converged Network Adapter X520-DA2	SFP+	8.6 W		Dual	PCIe v2.0 (5.0GT/s)	10Gb/s per port			