

Description of the component/accessory/option	Vendor Name	Supplier reference and Part Number		Revision Firmware Stepping
		model number	part number	
TE Socket LGA3647-0 (Socket P0) (MB support power up to 145w)		Base Frequency	Code Name	Stepping level
QJW0-1.5GHz	Intel		Skylake-Server	A-2
QLH0-1.8GHz	Intel		Skylake-Server	B-0
QMS6 Intel Xeon® Gold 6130 CPU @ 2.10GHz	Intel	2.10GHz	Skylake-Server	H-0
QMRX Intel(R) Xeon(R) Gold 6136 CPU @ 3.00GHZ 150w	Intel	3.00GHZ	Skylake-Server	H-0
QN7D Intel(R) Xeon(R) Gold 6144 CPU @ 3.50GHZ 150w	Intel	3.50GHZ	Skylake-Server	H-0
QN34 Intel(R) Xeon(R) Gold 6128 CPU @ 3.40GHZ	Intel	3.40GHZ	Skylake-Server	H-0
QN33 Intel(R) Xeon(R) Gold 6132 CPU @ 2.60GHZ	Intel	2.60GHZ	Skylake-Server	H-0
QN38 Intel(R) Xeon(R) Gold 6130T CPU @ 2.10GHZ	Intel	2.10GHZ	Skylake-Server	H-0
QMXH Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHZ	Intel	2.30GHZ	Skylake-Server	M-0
QMXJ Intel(R) Xeon(R) Gold 5120 CPU @ 2.20GHZ	Intel	2.20GHZ	Skylake-Server	M-0
QMXL Intel(R) Xeon(R) Gold 5120T CPU @ 2.20GHZ	Intel	2.20GHZ	Skylake-Server	M-0
QN0F Intel(R) Xeon(R) Silver 4109T CPU @ 2.00GHZ	Intel	2.00GHZ	Skylake-Server	U-0
QN1J Intel(R) Xeon(R) Silver 4116 CPU @ 2.10GHZ	Intel	2.10GHZ	Skylake-Server	M-0
QN09 Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHZ	Intel	2.10GHZ	Skylake-Server	U-0
QN0A Intel(R) Xeon(R) Silver 4108 CPU @ 1.80GHZ	Intel	1.80GHZ	Skylake-Server	U-0
QN7A Intel(R) Xeon(R) Silver 4114T CPU @ 2.20GHZ	Intel	2.20GHZ	Skylake-Server	U-0
QN0B Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHZ	Intel	2.20GHZ	Skylake-Server	U-0
QMRZ Intel(R) Xeon(R) Gold 6152 CPU @ 2.10GHZ	Intel	2.10GHZ	Skylake-Server	H-0
QM39 Intel(R) Xeon(R) Gold 6126T CPU @ 2.60GHZ	Intel	2.60GHZ	Skylake-Server	H-0
QPKB Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHZ	Intel	2.50GHZ	Cascade Lake	A-0
QPJF Intel(R) Xeon(R) Silver 4210 CPU @ 2.20GHZ	Intel	2.20GHZ	Cascade Lake	R-0
QPG6 Intel(R) Xeon(R) Silver 4214 CPU @ 2.20GHZ	Intel	2.20GHZ	Cascade Lake	L-0
QRAD Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHZ	Intel	2.10GHZ	Cascade Lake	B-0
QRG9 Intel(R) Xeon(R) Gold 5215 CPU @ 2.50GHZ	Intel	2.50GHZ	Cascade Lake	L-0
QRGH Intel(R) Xeon(R) Gold 5220 CPU @ 2.20GHZ	Intel	2.20GHZ	Cascade Lake	L-0
QRGE Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHZ	Intel	2.30GHZ	Cascade Lake	L-0
QS1V Intel(R) Xeon(R) Gold 6226 CPU @ 2.70GHZ	Intel	2.70GHZ	Cascade Lake	B-1
QS1Y Intel(R) Xeon(R) Gold 6230T CPU @ 2.10GHZ	Intel	2.10GHZ	Cascade Lake	B-1
QS28 Intel(R) Xeon(R) Gold 6238L CPU @ 2.10GHZ 140w	Intel	2.10GHZ	Cascade Lake	B-1
QRGC Intel(R) Xeon(R) Gold 5217 Processor @ 3.00GHZ 115w	Intel	3.00GHZ	Cascade Lake	L-0

Register Memory		Model Name	P/N	Remark
8G DDR4 2400 R-DIMM	Kingston	8GB DDR4-2400 RDIMM	KSM24RS8/8MEI	
16G DDR4 2400 R-DIMM	Crucial	16G DDR4-2400 RDIMM 1.2v CL1	CT16G4RFD424A.36FB1	
	Transcend	16G 1Rx4 DDR4-2400 REG	TS2GHR72V4C	
	ADATA	16GB DDR-2400 RDIMM	AD4R2400316G17-BSSB	
16G DDR4 2666 R-DIMM	Crucial	16GB DDR4-2666 RDIMM 1.2V CL19	CT16G4RFD8266-2G6E1.001	CPU : H-0 Stepping (QM39)
	Kingston	16GB DDR4-2666 RDIMM	KSM26RS416MEI	
	InnoDisk	16GB DDR4-2666 RDIMM	M4R0-AGS3ECIK-E84	
32G DDR4 2666 R-DIMM	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266.2G6D1	CPU : H-0 Stepping (QMS6)
	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266-2G6H1.001	MTA36ASF4G72PZ-2G6H1QG
	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266-2G6H1.001	MTA36ASF4G72PZ-2G6H1QI
	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266-2G6E1.001	MTA36ASF4G72PZ-2G6E1RK
	InnoDisk	32GB DDR4-2666 RDIMM	M4R1-BGS3GC0K-C	
	Kingston	32GB DDR4-2666 RDIMM 1.2V	KSM26RD4/32HAI	CPU : M-0 Stepping (QMXJ)
	Samsung	32GB DDR4-2666 RDIMM	M393A4K40CB2-CTD7Q M	Memory Speed : 2666MHz
	Skhynix	32GB DDR4-2666 RDIMM	HMA84GR7CJR4N	
	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266-2G6E1.001	MTA36ASF4G72PZ-2G6E1RG

Register Memory		Model Name	P/N	Remark
16G DDR4 2933 R-DIMM	Crucial	16GB DDR4-2933 RDIMM 1.2V CL21	CT16G4RFD8293-2G9E1.001	
	Kingston	16GB DDR4-2933 RDIMM 1.2V	KSM29RS4/16MEI	Memory Speed : 2933MHz
	Samsung	DDR4 2933 16GB RDIMM	M393A2K40DB2-CVFBQ	
32G DDR4 2933 R-DIMM	Crucial	32GB DDR4-2933 RDIMM 1.2V CL21	CT32G4RFD4293-2G9E2.001	MTA36ASF4G72PZ-2G9E2UG
	Micron	32GB 2Rx4 PC4 2933Y	MTA36ASF4G72PZ-2G9J3TI	
	Micron	32GB 2Rx8 PC4 2933Y	MTA18ASF4G72PDZ-2G9E1UI	
	Kingston	32GB 2Rx4 PC4-2933Y-RB2-12	KSM29RD4/32MEI	Memory Speed : 2933MHz
	Skhynix	32GB DDR4-2933 RDIMM	HMA84GR7CJR4N-WM-T4-AD	

LRDIMM Memory		Model Name	P/N	Remark
64G DDR4 2400 LR-DIMM	Samsung	64GB DDR4-2400 LRDIMM	M386A8K40BM1-CRC4Q M	Memory Speed : 2400MHz
64G DDR4 2666 LR-DIMM	Skhynix	D4 64GB 2666MT/s LRDIMM	J4CGLH4G4QHXC	
	Kingston	64GB DDR4-2666 LRDIMM 1.2V	KSM26LQ4/64HCI	Memory Speed : 2666MHz
	Kingston	64GB DDR4-2666 LRDIMM 1.2V	KSM26LQ4/64HAI	Memory Speed : 2666MHz

NVDIMM		NVDIMM	P/N	SUPERCAP
8G DDR4 2666 NVDIMM	Netlist	8GB 1Rx4 NN4-2666V-RZZZ-10	NV4884SET31-422NL0002	UPMU 340F(1) 22"(1)NV4 P UC220-8-7
16G DDR4 2666 NVDIMM	Netlist	16GB 1Rx4 NN4-2666V-RZZZ-10	NV4A84SBT31-411NL0002	UPMU 340F(1) 22"(1)NV4 P UC220-8-7
	Viking	16GB 1Rx4 PC4-2666-RZZ-19	VRA9MRAB2K32PN4E	VRNH090FH61C1N

Intel DCPMM		Model Number	P/N	Remark
128G	Intel		Intel DCPMM NMA1XBD128GQS 128GB	
512G	Intel		Intel DCPMM NMA1XBD512GQS 512GB	

USB 3.0 HDD		Model Number	P/N	SATA/SSD
160~ 3TB				
BUFFLO MiniStation USB3.0 1.0TB	Bufflo	HD-PCT1TU3/BW-AP	BUFFALO HD-PCTU3 1TB (USB)	SATA

SATA 3.5" HDD		Model Number	P/N	Type
251 ~ 500GB				
500GB, 7200 rpm, SATA-II 3.5 "	Seagate	HDS725050KLA360	0A31004	
400GB, 7200 rpm, SATA-II 3.5 "	WD	Caviar® SE16	WD4000AAKS	Caviar® SE16
1TB ~ 4TB				
4TB, 7200 rpm, SATA-III 3.5	Seagate	ST4000NM0033	Consellation® ES.3 9ZM170-003 Z1Z26LFL	
3.5"/1TB/SATA III	WD	WD1001FYYG-01SL3W1	NA	
1TB, 7200 rpm, SATA-III 3.5	Seagate	ST1000NM0033	9ZM173-003	Consellation® ES.3

SATA 2.5" HDD		Model Number	P/N	Type
<= 500GB				
500GB,7200 rpm,SATA-II 2.5"	Seagate	ST9500620NS	9RZ164-004	

SATA 2.5" SSD		Model Number	P/N	Type
<= 80GB				
SanDisk 2.5" SATA SD6SB1M-064G	SanDisk	X110 Solid State Drive	SD6SB1M-064G	
161 ~ 500GB				
Micron M600 2.5 SSD 256GB SATA 6G/s	Micron	MTFDDAK256MBF	MTFDDAK256MBF-1AN1ZABYY	
Intel® SSD 540s Series 480GB2.5" 6Gb/s	INTEL	SSDSC2KW480H6	SSDSC2KW480H6	

SATA M.2 SSD		Model Number	P/N	Type
<= 500GB				
NETLIST SSD128GB-002 (128GB, SATA600, M.2, SSD)	Netlist	SSD128GB-002, M.2 2242	(128GB, SATA600, M.2, SSD)	
Phison M.2 128GB SM8128GPYCJGBAIC-S112	Phison	SM8128GPYCJGBAIC-S112	SATA 3.2, 6.0 Gb/s	
Phison M.2 256GB SM8256GPYCJGBAIC-S112	Phison	SM8256GPYCJGBAIC-S112	SATA 3.2, 6.0 Gb/s	
Phison M.2 512GB SM8512GPYCJGBAIC-S114	Phison	SM8512GPYCJGBAIC-S114	SATA 3.2, 6.0 Gb/s	
INTEL SSDSCKJB150G7 (150GB, SATA600, M.2, SSD, SED)	Intel	SSDSCKJB150G7, M.2 2280	(150GB, SATA600, M.2, SSD, SED)	
INTEL SSDSCKJB240G7 (240GB, SATA600, M.2, SSD, SED)	Intel	SSDSCKJB240G7, M.2 2280	(240GB, SATA600, M.2, SSD, SED)	
Phison M.2 2280 256GB PS3110SSD	Phison	SM8256GPTCB3B-S10C-12		
Phison M.2 2280 128GB PS5008 SSD	Phison	ESO128GTLCL9-E8C-2		

PCIe M.2 SSD		Model Number	P/N	Type
<= 500GB				
Apacer PCIe Gen 3x4 M.2 2280 128GB	Apacer	86.20FS4.1T01ABB/APP128G1AN-01TT	NVMe 128GB PCIe Drive	
acpi M.2 M2PDD-8L 512GB	acpi	M2PDD-8L 512GB	512GB M.2 2280 PCIe Gen.3 x4	

SATA DOM SSD		Model Name	P/N	XXX
<= 500GB				
Innodisk SATADOM-ML 3ME3 128GB	Innodisk	SATADOM-ML 3ME3		

NIC CARDS (see motherboard section for LOM)		Model Name	P/N	Remark
Intel® Ethernet Network Adapter XXV710 (25G SFP+)	Intel	MM#948661_XXV710-DA2		Test with 25GB SFP+ cable
Intel Ethernet E810XXVDA4G1P5	Intel	E810XXVDA4G1P5		Columbiaville 25 (PCIe FH)
Qlogic Intelligent Ethernet Adapters 25G dual port (PCIe X8 Gen3)	QLOGIC	QL45212HLCU_25G	QL45212HLCU_25G dual port	
Qlogic Intelligent Ethernet Adapter 100G single port (PCIe X16 Gen3)	QLOGIC	QL45611HLCU_100G	QL45611HLCU_100G single port	
Qlogic Intelligent Ethernet Adapter 25G dual port (PCIe X8 Gen3)	QLOGIC	QL41212HLCU_25G	AH2010406-01 A	Test with 25GB SFP+ cable
Qlogic Intelligent Ethernet Adapters 25G dual port (PCIe X8 Gen3)	QLOGIC	QL41232HOCU(Dual25G)	AH2010407-11 A	QLOGIC_OCP_QL41232HOCU
Broadcom Single port 50 Gb/s or 40 Gb/s Network Interface Card (50G QSP)	Broadcom	BCM957414A4140C		
Broadcom PCIe standard slot 1GbE dual port	Broadcom	BMC95720A2003G	PCIe standard slot 1GbE dual port	
Mellanox Dual port 10 Gb/s Network Interface Card	Mellanox	MCX4121A_XCAT		
Mellanox ConnectX-4 Lx EN Network Interface Card 25GbE Dual-Port	Mellanox	MCX4121A-ACAT		
Broadcom BCM957412A4120AC_04	Broadcom	PCIe standard slot 10G SFP+ dual port	BCM957412A4120AC_04	
Broadcom BCM95720A2003G	Broadcom	PCIe standard slot 1GbE dual port	BCM95720A2003G	
Intel I350-T4V2	Intel	Intel Ethernet Server Adapter		
Mellanox MCX4121A-XCAT	Mellanox	MCX4121A-XCAT Dua Port 10 Gb	MT1708X01740	

HBA & Raid		Model Name	S/N, P/N	Device Name
ASR-81605ZQ	Adaptec	ASR-81605ZQ Single	5E366318629, 2281600-R	
ASR-8885	Adaptec	ASR-8885 Single	4D38133D03A, 2277000-R	
SAS9300-4i4e HBA	LSI	SAS9300-4i4e	SV41930846, H3-25515-00F	
SAS9300-4i4e HBA	LSI	SAS9300-4i4e	SV41930855, H3-25515-00F	
MegaRAID SAS 9341-8i	LSI	SAS9341-8i, MegaRAID SAS 9341-8i	SV4523224B, H3-25470-02E	x8 lane PCI Express® 3.0
MegaRAID SAS 9341-8i	LSI	SAS9341-8i	SV45233129, H3-25470-02E	
SAS9300-16e	LSI	SAS9300-16e	SP52145240, H3-25520-01E	

Transceiver		Model Name	P/N	Remark
ModuleTek Ethernet transceiver	ModuleTek	MT-E10GSFPT		SFP+ 10G to RJ45
ModuleTek Ethernet transceiver	ModuleTek	SFP10-SR-C10		SFP+ 10G to Fiber cable

ODD		Model Name	P/N	XXX
LITEON eSAU108-113 4 8X USB EXTERNAL DVD/CD Writer	LITEON	eSAU108-113 4		

USB device		Model Name	P/N	XXX
BELKIN Hi-speed USB 2.0 4-Port Lighted Hub	BELKIN		F5U403	
Microsoft Comfort Optical Mouse 3000	Microsoft	1043	X812481-003	
Microsoft Comfort Curve Keyboard 2000	Microsoft	1047	x802645-004	
SanDisk Extreme © USB 3.0隨身碟 SDCZ80-016G-A75	SanDisk	USB 3.0	16G	
Transcend JetFlash@780	Transcend	USB 3.0	8G	

Supported OSs			Kernel version	
Windows Server 2012 standard (onboard SATA AHCI mode x64)				
Windows Server 2012 standard (onboard SATA-Raid0 mode x64)				
Windows Server 2012 standard (onboard SATA-Raid1 mode x64)				
Windows Server 2012 DataCenter (onboard SATA AHCI mode x64)				
Windows Server 2012 DataCenter (onboard SATA-Raid0 mode x64)				
Windows Server 2012 DataCenter (onboard SATA-Raid1 mode x64)				
Windows Server 2012 DataCenter (onboard SATA-Raid5 mode x64)				
Windows Server 2012 DataCenter (onboard SATA-Raid10 mode x64)				
Windows Server 2012 DataCenter (onboard SAS3008-Raid0 mode x64)				
Windows Server 2012 DataCenter (onboard SAS3008-Raid1 mode x64)				
Windows 10 Enterprise (onboard SATA AHCI mode x64)				
Windows Server 2016 Datacenter (onboard SATA AHCI mode x64)				
Windows Server 2016 Standard (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SATA-Raid0 mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SATA-Raid1 mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SATA-Raid5 mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SAS3008-Raid0 mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SAS3008-Raid1 mode x64)				
CentOS 7.3 (onboard SATA AHCI mode x64)				
CentOS 7.3 (onboard SATA-Raid0 mode x64)				
CentOS 7.3 (onboard SATA-Raid1 mode x64)				
CentOS 7.3 (onboard SATA-Raid5 mode x64)				
CentOS 7.3 (onboard SATA-Raid10 mode x64)				
CentOS 7.2 (onboard SATA AHCI mode x64)				
CentOS 7.2 (onboard SAS3008-Raid0 mode x64)				
CentOS 7.2 (onboard SAS3008-Raid1 mode x64)				
CentOS 7.3 (onboard SAS3008-Raid5 mode x64)				
CentOS 7.3 (onboard SAS3008-Raid10 mode x64)				
CentOS 7.1 (onboard SATA AHCI mode x64)				
SuSE Linux Enterprise Server 12 (onboard SATA AHCI mode x64)				
SuSE Linux Enterprise Server 11 SP2 (onboard SATA AHCI mode x64)				
Ubuntu Server 16.04 (onboard SATA AHCI mode x64)				
Fedora 24 (onboard SATA AHCI mode x64)				

Supported UEFI OSs				
Windows Server 2012 R2 standard (onboard SATA AHCI mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA-Raid0 mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA-Raid1 mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA-Raid5 mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA-Raid10 mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA AHCI mode x64)				
Windows 10 Enterprise (onboard SATA AHCI mode x64)				
Windows Server 2016 Datacenter (onboard SATA AHCI mode x64)				

Supported UEFI OSs				
Windows Server 2016 Standard (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid0 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid1 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid5 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid10 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SAS3008-Raid0 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SAS3008-Raid1 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SAS3008-Raid5 mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SAS3008-Raid10 mode x64)				
Red Hat Enterprise Linux 7.2 (onboard SATA AHCI mode x64)				
CentOS 7.3 (onboard SATA AHCI mode x64)				
CentOS 7.3 (onboard SATA-Raid0 mode x64)				
CentOS 7.3 (onboard SATA-Raid1 mode x64)				
CentOS 7.3 (onboard SATA-Raid5 mode x64)				
CentOS 7.3 (onboard SATA-Raid10 mode x64)				
CentOS 7.2 (onboard SATA AHCI mode x64)				
CentOS 7.2 (onboard SATA-Raid0 mode x64)				
CentOS 7.2 (onboard SATA-Raid1 mode x64)				
CentOS 7.2 (onboard SATA-Raid5 mode x64)				