

Description of the component/accessory/option	Vendor Name	Supplier reference and Part Number		Revision
		model number	part number	Firmware Stepping
FC LGA2011-3 Processor		Base Frequency	Code Name	Stepping level
Intel® Xeon® CPU E5-2697 v3 2.60GHz *2 (QGN3)	Intel	2.60GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2695 v3 @ 2.30GHz (QG7R)	Intel	2.30GHz	Haswell-EP	C-0
Intel® Xeon® CPU E5-2695 v3 @ 2.30GHz (QGN4)	Intel	2.30GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2667 v3 @ 3.20GHz (QGSQ)	Intel	3.20GHz	Haswell-EP	R-2
Intel® Xeon® CPU E5-2687W v3 @ 3.10GHz (QGPG)	Intel	3.10GHz	Haswell-EP	M-1
Intel® Xeon® CPU E5-2698 v3 @ 3.6GHz (QGN2)	Intel	3.60GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2699 v3 @ 3.6GHz (QGN1)	Intel	3.60GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2637 v3 @ 3.5GHz (QGSP)	Intel	3.50GHz	Haswell-EP	R-2
Intel® Xeon® CPU E5-2680 v4 @ 2.40GHz (QK92)	Intel	2.40GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2699 v4 @ 2.20GHz (SR2JS)	Intel	2.20GHz	Broadwell-EP	B-0
Intel® Xeon® CPU E5-2660 v4 @ 2.00GHz (QK8Z)	Intel	2.00GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2643 v4 @ 3.40GHz (QKEZ)	Intel	3.40GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2667v4 @ 3.20GHz (QKF0)	Intel	3.20GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2620v4 @ 2.10GHz (QKRG)	Intel	2.10GHz	Broadwell-EP	R-0

Register Memory		Model Name	P/N	Remark
4G DDR4 2133 R-DIMM	ADATA	ADATA_DDR4 2133(15) 4GX9 R-DIMM	AD4R2133W4G15-BMIA	
	Adata	4GB DDR4 2133(15) 4GX9 R-DIMM	AD4R2133W4G15-BHYM	Approved on E5-2600 V4
8G DDR4 2133 R-DIMM	Transcend	8GB 2Rx8 DDR4 2133 REG	TS1GHR72V1H 8GB PC34100U	
	InnoDisk	8GB DDR4 2133 W/REG DIMM	M4RR-8GSQXC0G-DE84	
	ATP	8GB DDR4 2133 ECC REG DIMM	A4B08QC4BLPBS0	Memory DC Line : 1.200V
	Kingston	9965589-001.A00G 8GB PC34100U	KVR21R15S4/8 8GB PC4-2133 CL15 RDIMM	
	Crucial	8GB DDR4-2133 1.2v SRx4 RDIMM	CT8G4RFS4213.18FA2	
	Kingston	Model : HMA41GR7MFR8N-TF	KVR21R15D8/8 8GB PC4-2133 CL15	Memory DC Line : 1.200V
8G DDR4 2400 R-DIMM	Samsung	8GB DDR4-2400 R-DIMM	M393A1G40EB1-CRC	
16G DDR4 2133 R-DIMM	InnoDisk	16GB DDR4 2133 W/REG DIMM	M4RR-AGSQXC0G-DE84	
	Smart	16GB 2Rx4 PC4-2133P	SH2047RD410451-SD	
	Kingston	Module : Micron 36ASF2G72PZ-2G1A2	KVR21R15D4/16 16GB PC4-2133 CL15	Memory DC Line : 1.200V
	Crucial	16GB DDR4-2133 RDIMM	1.2V 2R*4 R-DIMM CT16G4RFD4213.36FA2	
	Transcend	Transcend 16GB DDR4-2133 REG DIMM	TS2GHR72V1Z	
	Samsung	16GB DDR4 2133 RDIMM	M393A2G40DB0-CPB 16GB PC34100U	
32G DDR4 2133 R-DIMM	Crucial	32GB DDR4-2133 RDIMM 1.2 CL1	CT32G4RFD4213.36FA1	Approved on E5-2600 V4
16G DDR4 2400 R-DIMM	InnoDisk	16GB DDR4-2400 REG DIMM	M4R0-AGS3ECSJ-E84	Approved on E5-2600 V4
	Transcend	16G DDR4-2400 RDIMM 1Rx4	TS2GHR72V4C	Approved on E5-2600 V4
32G DDR4 2400 R-DIMM	Crucial	32GB DDR4-2400 RDIMM 1.2V CL1	CT32G4RFD424A.36FB1	Approved on E5-2600 V4
	Crucial	32GB DDR4-2400 LRDIMM 1.2V CL	CT32G4LFD424A.36FB1	Approved on E5-2600 V4
	Kingston	32GB DDR4-2400 RDIMM 1.2V	KVR24R17D4/32MA	Approved on E5-2643 V4
32G DDR4 2666 R-DIMM	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266.2G6D1	Memory Speed : 2400MHz
	Micron	32GB DDR4-2666 RDIMM 1.2V CL19	MTA36ASF4G72PZ-2G6H1QG	Memory Speed : 2400MHz
	Kingston	32GB DDR4-2666 RDIMM 1.2V	KSM26RD4/32HA1	Approved on E5-2643 V4
64G DDR4 2400 R-DIMM	Samsung	64GB DDR4-2400 RDIMM	M386A8K40BM1-CRC4Q M	Memory Speed : 2400MHz

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NVDIMM		NVDIMM	P/N	SUPERCAP
8G DDR4 2133 NVDIMM	Micron	MTA18ASF1G72PF1Z-2G1Y1YAAESIG 8GB 1Rx4 PC4-2133P-RZZ-10		AGIGA9811-001BCA, 02150400000189-05
	Smart	SH1027NR410451SD 8GB 1RX4 NN4-2133P-RZZZ-10		SSC18041SMT0031B
	Viking	VRA9MR8B2H16 8GB 1Rx4-2133P-RZZ-15		205746531, VRCP100FH30F1
8G DDR4 2400 NVDIMM	Netlist	Netlist NVDIMM : NU4874SDT20-122NL0001 8GB 1RX4 NN4-2400T-RZZZ-10		UPMU 340F 19" NU4 PICOLOCK 6P (UC190-8-6)
SATA 3.5" HDD		Model Number	P/N	Type
81 ~ 160GB				
160GB, 7200rpm, SATA 3.5 "	SAMSUNG	HD161HJ	HD161HJ	
251 ~ 500GB				
3.5"/500GB/SATA III	WD	WD5000DHTZ	WD5000HHTZ-04N21V1	
1TB ~ 4TB				
1TB, 7200 rpm, SATA-III 3.5	Seagate	ST1000NM0033	Consellation@ ES.3	
4TB, 7200 rpm, SATA-III 3.5	Seagate	ST4000NM0033	Consellation@ ES.3 9ZM170-003 Z1Z26LFL	
3.5"/1TB/SATA III	WD	WD10EFRX	WD10EFRX-68PJCNO	Western Digital Red NAS Hard Drive WD10EFRX 1TB IntelliPower 64MB Cache SATA 6.0Gb/s 3.5" Internal Hard Drive
SATA 2.5" HDD		Model Number	P/N	Type
<= 500GB				
500GB,7200 rpm,SATA-II 2.5"	Seagate	ST9500610NS	9RZ162-003	
SAS 3.5" HDD		Model Number	P/N	Type
1TB ~ 4TB				
1TB, 7200rpm, SAS 6.0 3.5"	WD	WD1001FYYG-01SL3W1	NA	
SATA 2.5" SSD		Model Number	P/N	Type
161GB ~ 1TB				
Micron M600 2.5 SSD 256GB SATA 6G/s	Micron	MTFDDAK256MBF	MTFDDAK256MBF-1AN1ZABYY	
Intel® SSD 540s Series 480GB2.5" 6Gb/s	INTEL	SSDSC2KW480H6	SSDSC2KW480H6	
PCIe 2.5" SSD		Model Number	P/N	Type
<= 400GB				
Intel 2.5" SSD DC P3600 Series 400GB	INTEL	CVMD439000B5400FGN	SSDPE2ME400G4	
Intel 2.5" SSD DC P3700 Series 400GB	INTEL	CVFT419600KQ400GGN	SSDPE2MD400G4	
NIC CARDS (see motherboard section for LOM)		Model Name	P/N	XXX
Mellanox IB MCX354A-QCB Gen3	Mellanox			
Intel X540T2, PCIe v2.1 (5.0GT/s)	Intel	Intel® Ethernet Converged Network Adapter X540-T2	31F87C503ADG4527003, 914248	
Intel X540T1, PCIe 2.1 (5.0 GT/s)	Intel	Intel® Ethernet Converged Network Adapter X540-T1	3100AA493ADG54042005, 914246	
Qlogic Ethernet Adapter QL41212HLCU daul port 25G	Qlogic	QL41212HLCU	AH2010406-01 A	
Qlogic Ethernet Adapter QL45212HLCU daul port 25G	Qlogic	QL45212HLCU	BC0110405-07 F	

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HBA & Raid		Model Name	S/N, P/N	Device Name
LSI SAS 9207-4i4e	LSI		SV50214774, H3-25434-00J	

ODD		Model Name	P/N	XXX
LITEON DH-20A3S07C 20X SATA DVDRW DUAL	LITEON	DH-20A3S07C		
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	
LITEON eSAU108-113 4 8X USB EXTERNAL DVD/CD Writer	LITEON	eSAU108-113 4		
MITSUMI D353FUE, USB ,1.44MB	MITSUMI	D353FUE		
Transcend JetFlash@V30 1GB USB 2.0 Drive	Transcend		TS1GJFV30	
SanDisk Extreme @ USB 3.0隨身碟 SDCZ80-016G-A75	SanDisk	USB 3.0	16G	
SONY USB3.0 Drive	Sony			

Supported OSs			Kernel version	
Windows 2008 R2 Standard Edition (onboard SATA AHCI mode x64)	Microsoft			
Windows 2008 R2 Enterprise Edition (onboard SATA AHCI mode x64)	Microsoft			
Windows 2008 R2 Datacenter Edition (onboard SATA AHCI mode x64)	Microsoft			
Windows Server 2012 standard (onboard SATA AHCI mode x64)	Microsoft			
Windows Server 2012 standard (onboard SATA IDE mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA IDE mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA AHCI mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA-Raid0 mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA-Raid1 mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA-Raid5 mode x64)	Microsoft			
Windows Server 2012 DataCenter (onboard SATA-Raid10 mode x64)	Microsoft			
Windows Server 2012 R2(onboard SATA AHCI mode x64)	Microsoft			
Windows 10 Enterprise 2015 LTSB x64 6848446 (onboard SATA AHCI mode x64)	Microsoft			
Red Hat Enterprise Linux 6.4 (onboard SATA IDE mode x64)	RedHat			
Red Hat Enterprise Linux 6.4 (onboard SATA AHCI mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA IDE mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid0 mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid1 mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid5 mode x64)	RedHat			
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid10 mode x64)	RedHat			
Red Hat Enterprise Linux 6.8 (onboard SATA AHCI mode x64)	RedHat			
Red Hat Enterprise Linux 6.8 (onboard SATA-Raid0 mode x64)	RedHat			
Red Hat Enterprise Linux 6.8 (onboard SATA-Raid1 mode x64)	RedHat			
Red Hat Enterprise Linux 6.8 (onboard SATA-Raid5 mode x64)	RedHat			
Red Hat Enterprise Linux 6.8 (onboard SATA-Raid10 mode x64)	RedHat			
Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64)	RedHat			
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid0 mode x64)	RedHat			

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Red Hat Enterprise Linux 7.3 (onboard SATA-Raid1 mode x64)	RedHat			
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid5 mode x64)	RedHat			
Red Hat Enterprise Linux 7.3 (onboard SATA-Raid10 mode x64)	RedHat			
CentOS 6.5 (onboard SATA-Raid0 mode x64)				
CentOS 6.5 (onboard SATA-Raid1 mode x64)				
CentOS 6.5 (onboard SATA-Raid5 mode x64)				
CentOS 6.5 (onboard SATA-Raid10 mode x64)				
CentOS 6.6 (onboard SATA-Raid0 mode x64)				
CentOS 6.6 (onboard SATA-Raid1 mode x64)				
CentOS 6.6 (onboard SATA-Raid5 mode x64)				
CentOS 6.6 (onboard SATA-Raid10 mode x64)				
CentOS 6.7 (onboard SATA AHCI mode x64)				
CentOS 6.7 (onboard SATA-Raid0 mode x64)				
CentOS 6.7 (onboard SATA-Raid1 mode x64)				
CentOS 6.7 (onboard SATA-Raid5 mode x64)				
CentOS 6.7 (onboard SATA-Raid10 mode x64)				
CentOS 7.1 (onboard SATA-Raid0 mode x64)				
CentOS 7.1 (onboard SATA-Raid1 mode x64)				
CentOS 7.1 (onboard SATA-Raid5 mode x64)				
CentOS 7.1 (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)				
SuSE Linux Enterprise Server 11 SP3 (onboard SATA IDE mode x64)				
SuSE Linux Enterprise Server 11 SP3 (onboard SATA AHCI mode x64)				
VMWare ESXi 5.1.0 update 1 (onboard SATA AHCI mode x64)				
VMWare ESXi 5.5.0 update 1 (onboard SATA IDE mode x64)				
VMWare ESXi 5.5.0 update 1 (onboard SATA AHCI mode x64)				
Ubuntu Server 12.04.2 (onboard SATA IDE mode x64)				
Ubuntu Server 12.04.2 (onboard SATA AHCI mode x64)				
Ubuntu Server 14.04.5 (onboard SATA AHCI mode x64)				
Ubuntu Server 16.04.2 (onboard SATA AHCI mode x64)				
Supported UEFI OSs				
Windows Server 2012 R2 standard (onboard SATA AHCI mode x64)	Microsoft			
Windows Server 2012 R2 DataCenter (onboard SATA-Raid0 mode x64)	Microsoft			
Windows Server 2012 R2 DataCenter (onboard SATA-Raid1 mode x64)	Microsoft			
Windows Server 2012 R2 DataCenter (onboard SATA AHCI mode x64)	Microsoft			
Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 6.8 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64)				
CentOS 6.5 (onboard SATA AHCI mode x64)				
CentOS 6.6 (onboard SATA-Raid0 mode x64)				

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CentOS 6.6 (onboard SATA-Raid1 mode x64)				
CentOS 6.6 (onboard SATA-Raid5 mode x64)				
CentOS 6.6 (onboard SATA-Raid10 mode x64)				
CentOS 6.7 (onboard SATA-Raid0 mode x64)				
CentOS 6.7 (onboard SATA-Raid1 mode x64)				
CentOS 6.7 (onboard SATA-Raid5 mode x64)				
CentOS 6.7 (onboard SATA-Raid10 mode x64)				
CentOS 7.1 (onboard SATA-Raid0 mode x64)				
CentOS 7.1 (onboard SATA-Raid1 mode x64)				
CentOS 7.1 (onboard SATA-Raid5 mode x64)				
CentOS 7.1 (onboard SATA-Raid10 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)				
Ubuntu Server 14.04.5 (onboard SATA AHCI mode x64)				
Ubuntu Server 16.04.2 (onboard SATA AHCI mode x64)				