

Description of the component/accessory/option	Vendor Name	Supplier reference and Part Number		Revision Firmware Stepping
		model number	part number	
<b>FC LGA2011-3 Processor</b>		<b>Base Frequency</b>	<b>Code Name</b>	<b>Stepping level</b>
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 E5-2698 v3 @ 3.60GHz (QGN2)	Intel	3.60GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2699 v3 @ 2.30GHz (QGEF)	Intel	2.30GHz	Haswell-EP	C-0
Intel® Xeon® CPU E5-2697 v3 @ 2.6GHz (QGN3)	Intel	2.6GHz	Haswell-EP	C-1
Intel® Xeon® CPU E5-2637 v3 @ 3.5GHz (QGSP)	Intel	3.5GHz	Haswell-EP	R-2
Intel® Xeon® CPU E5-2630L v3 @ 1.80GHz (QGST)	Intel	1.80GHz	Haswell-EP	R-2
Intel® Xeon® CPU E5-2609 v3 @ 1.90GHz (QGPV)	Intel	1.90GHz	Haswell-EP	M-1
Intel® Xeon® CPU E5-2643 v3 @ 3.40GHz (QGSR)	Intel	3.40GHz	Haswell-EP	R-2
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 E5-2680 v4 @ 2.40GHz (QK92)	Intel	2.40GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2618L v4 @ 2.20GHz (QKF9)	Intel	2.20GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2603 v4 @ 1.70GHz (QKEV)	Intel	1.70GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2609 v4 @ 1.70GHz (QKEW)	Intel	1.70GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2660 v4 @ 2.00GHz (QK8Z)	Intel	2.00GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2608L v4 @ 1.60GHz (QKF4)	Intel	1.60GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2648L v4 @ 2.40GHz (QK9C)	Intel	2.40GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2650 v4 @ 2.20GHz (QK8Y)	Intel	2.20GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2658 v4 @ 2.30GHz (QK9A)	Intel	2.30GHz	Broadwell-EP	M-0
Intel® Xeon® CPU E5-2699 v4 @ 2.20GHz (SR2JS)	Intel	2.20GHz	Broadwell-EP	B-0
Intel® Xeon® CPU E5-2630 v4 @ 2.20GHz (QKRH)	Intel	2.20GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2620 v4 @ 2.20GHz (QKRG)	Intel	2.10GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2623 v4 @ 2.60GHz (QKFD)	Intel	2.60GHz	Broadwell-EP	R-0
Intel® Xeon® CPU E5-2643 v4 @ 3.40GHz (QKEZ)	Intel	3.40GHz	Broadwell-EP	R-0

Register Memory		Model Name	P/N	Remark
4G DDR4 2133 R-DIMM	Transcend	4G 1Rx8 DDR4 2133 REG	TS512MHR72V1H_B59162-0039	
	Crucial	4GB DDR4 2133 1.2v SRX8 R-DIMM	CT4G4RFS8213.9FA2	Memory DC Line : 1.200V
	Adata	4GB DDR4 2133(15) 4GX9 R-DIMM	AD4R2133W4G15-BHYM	
8G DDR4 2133 R-DIMM	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	1.2V
	Kingston	Model : HMA41GR7MFR8N-TF	KVR21R15D8/8 8GB PC4-2133 CL15 RDIMM	Memory DC Line : 1.200V
	Crucial	CT8G4RF84213.18FA2 (Micron MTA18ASF1G72PZ-2G1A2IG)	8GB DDR4-2133 1.2V 8R x4 RDIMM	Memory DC Line : 1.200V
	Transcend	8GB PC4-2133MHz	TS1GHR72V1H	
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 1.2V 2R*4	T16G4RFD4213.36FA2, MTA36ASF2G72PZ-2G1A2KK	
	Transcend	Transcend 16GB DDR4-2133 REG DIMM	TS2GHR72V1Z	
32G DDR4 2133 R-DIMM	Samsung	M393A2G40DB0-CPB 16GB PC34100U	Samsung 16GB 2Rx4 PC4-2133P-RA0-10-DC0	
32G DDR4 2133 R-DIMM	Crucial	32G DDR4-2133 RDIMM 1.2	CT32G4RFD4213.36FA1	Approved on E5-2600 V4
8G DDR4 2400 R-DIMM	Transcend	8GB DDR4 2400 RDIMM	TS3RD4LR01-8G	MB-DPHW5U-L REV : A
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
	InnoDisk	16GB DDR4-2400 REG DIMM	M4R0-AGS3ECSJ-E84 (M4RS-AGS3ECOJ-B)	Approved on E5-2643 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 E5-2667 v4
32G DDR4 2666 R-DIMM	Crucial	32GB DDR4-2666 RDIMM 1.2V CL19	CT32G4RFD4266-2G6E1.001	
	Kingston	32GB DDR4-2666 RDIMM 1.2V	KSM26RD4/32HAI	Approved on E5-2667 v4

32G DDR4 2666 R-DIMM	InnoDisk	32GB DDR4-2666 RDIMM	M4RI-BGS3GC0K-C	Approved on E5-2643 v4
64G DDR4 2400 R-DIMM	Samsung	64GB DDR4-2400 LRDIMM 1.2V	M386A8K40BM1-CRC4Q M	Approved on E5-2667 v4

NVDIMM		NVDIMM	P/N	SUPERCAP
8G DDR4 2133 NVDIMM	Micron	Micron NVDIMM : MTA18ASF1G72PF1Z-2G1Y1YAAESIG 8GB 1Rx4 PC4-2133P-RZZ-10		AGIGA9811-001BCA, 02150400000189-05
	Smart	Smart NVDIMM : SH1027NR410451SD 8GB 1RX4 NN4-2133P-RZZZ-10		SSC18041SMT0031B
	Viking	Viking NVDIMM : VRA9MR8B2H16 8GB 1Rx4-2133P-RZZ-15		205746531, VRCP100FH30F1
8G DDR4 2400NVDIMM	Netlist	Netlist NVDIMM : NU4874SDT20-122NL0001 8GB 1RX4 NN4-2400T-RZZZ-10		UPMU 340F 19" NU4 PICOLOCK 6P (UC190-8-6)

USB 3.0 HDD		Model Number	P/N	SATA/SSD
<b>160~ 3TB</b>				
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
<b>251 ~ 500GB</b>				
500GB, 7200 rpm, SATA-II 3.5 "	Seagate	HDS725050KLA360	0A31004	
400GB, 7200 rpm, SATA-II 3.5 "	WD	Caviar® SE16	WD4000AAKS	Caviar® SE16
<b>1TB ~ 4TB</b>				
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
<b>&lt;= 500GB</b>				
500GB,7200 rpm,SATA-II 2.5"	Seagate	ST9500620NS	9RZ164-004	

SATA 2.5" SSD		Model Number	P/N	Type
<b>&lt;= 80GB</b>				
SanDisk 2.5" SATA SD6SB1M-064G	SanDisk	X110 Solid State Drive	SD6SB1M-064G	

NIC CARDS (see motherboard section for LOM)		Model Number	P/N	Type
Intel 2.5" SATA SSDSC2BW080A4 530 Series 80GB	INTEL	BTDA40320ARP0806GN	SSDSC2BW080A4	SSDSC2BW080A4 (80GB, SATA600, 2.5", SSD)

SATA M.2 SSD		Model Number	P/N	Type
<b>&lt;= 500GB</b>				
Apacer flash Driv 32GB (SATA 600, 1",SSD)	Apacer	APM2T80A201032GD-BTM	81.5CER2.5T010BB	
Transcend TS256GMTS800 256GB (SATA 600, 1",SSD)	Transcend	TS256GMTS800	(256GB, SATA600, SSD)	N0815B
Transcend TS128GMTS800 128GB (SATA 600, 1",SSD)	Transcend	TS128GMTS800	(128GB, SATA600, SSD)	
Transcend TS64GMTS800 64GB (SATA 600, 1",SSD, 32M Cache)	Transcend	TS64GMTS800	(64GB, SATA600, SSD, 32MB Cache)	
Transcend TS32GMTS800 32GB (SATA 600, 1",SSD, 32M Cache)	Transcend	TS32GMTS800	(32GB, SATA600, SSD, 32MB Cache)	
Innodisk M.2 (S80) 3ME 128GB (SATA 600, 1",SSD)	Innodisk	M.2 (S80) 3ME	DEM28-A28D06SCAQC 128GB	
Samsung MZHPU128HCGM-00000 (128GB, PCIe600, M.2, SSD)	Samsung	MZHPU128HCGM-00000	(128GB, PCIe600, M.2, SSD)	
Unigen(TOSHIBA) 1533-128G M.2 2242 SATA3 SSD	Unigen	UBM2TPS128HZM3-FTF	(128GB, SATA3, M.2, SSD)	
NETLIST SSD128GB-002 (128GB, SATA600, M.2, SSD)	Netlist	SSD128GB-002, M.2 2242	(128GB, SATA600, M.2, SSD)	
Unigen 128GB M.2 2242 SATA SSD	Unigen	UBM3MAC128HCM1-FTG-UGN	(128GB, SATA600, SSD)	
ATP M.2 2242 SSD SATA III 6Gb/s, AF32GSMIA-VAAXP	ATP	ATP M.2 2242 SSD SATA III 6Gb/s	AF32GSMIA-VAAXP	
Innodisk M.2 (S80) 3ME3 64GB	Innodisk	DEM24-64GD09SC1DC-E84	64GB SATA M.2 2242 MLC (B+M Key)	
Crucial 250GB M.2 2280SS SSD	Crucial	CT250MX200SSD4	Crucial MX200 250GB SATA M.2 Type 2280SS SSD	
Unigen 128GB M.2 2242 SATA SSD	Unigen	UBM3MAC128HCM1-FTG-UGN	(128GB, SATA600, SSD)	
Apacer M.2 SSD 2242 64GB	Apacer	86.A2FM2.4P3GC	M.2 SSD 2242 64G	
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)	

PCIe M.2 SSD		Model Number	P/N	Type
<b>&lt;= 500GB</b>				
Apacer PCIe Gen 3x4 M.2 2280 128GB	Apacer	86.20FS4.1T01ABB/APP128G1AN-01TT	NVMe 128GB PCIe Drive	

SATA DOM SSD		Model Name	P/N	XXX
<= 500GB				
NETLIST SSD128GB-005 (126.7GB, SATA600, SSD)	Netlist	SSD128GB-005	(126.7GB, SATA600, 2.5", SSD)	

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	
Mellanox MCX353A-FCBT	Mellanox		MT1317X01681	
Mellanox IB MCB193A-FCAT	Mellanox			

HBA & Raid		Model Name	S/N, P/N	Device Name
ASR-8805 SGL	Adaptec		3A50134D4C9, 2277500-R	
ASR-7805 SGL	Adaptec		2A46121CCC4, 2274100-R	
ASA-7805H SGL	Adaptec		3A261331231, 2280800-R	
Adaptec RAID 71605Q	Adaptec			
SAS 9300-8e	LSI		SV34920884, H5-25460-02E	
SAS 9300-4i4e	LSI		SV43715355 H5-25515-00F	
SAS 9207-8i	LSI	LSI SAS9207-8i Gen3	SV34319186 H3-25412-00H	
SAS 9207-8e	LSI	LSI SAS9207-8e Gen3	SV35102815, H3-25427-02H	
SAS 9200-8e	LSI		SP34308437, H3-25260-02F	
SAS 9361-8i	LSI		SV43521119 03-25420-01D	
MegaRAID SAS 9380-4i4e	LSI		SV44137660 03-25190-02D	
SAS 9207-8e SV35102815 H3-25427-02H	LSI		SV34920884, H5-25460-02E	

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

SATA DVD/CD-RW (half height)		Model Name	P/N	XXX
LITEON DVD/CD REWRITABLE DRIVE	LITEON	DH-20A3S		

FDD		Model Name	P/N	XXX
MITSUMI D353FUE, USB ,1.44MB	MITSUMI	D353FUE		

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 2008 R2 Standard Edition (onboard SATA AHCI mode x64)				
Windows 2008 R2 Enterprise Edition (onboard SATA AHCI mode x64)				
Windows 2008 R2 Datacenter Edition (onboard SATA AHCI mode x64)				
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 standard (onboard SATA IDE mode x64)				
Windows Server 2012 DataCenter (onboard SATA IDE mode x64)				
Windows Server 2012 DataCenter (onboard SATA AHCI mode x64)				
Windows Server 2012 DataCenter (onboard LSI 2008-Raid0 mode x64)				
Windows Server 2012 DataCenter (onboard LSI 2008-Raid1 mode x64)				
Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid0 mode x64)				
Red Hat Enterprise Linux 6.5 (onboard SATA-Raid1 mode x64)				
Red Hat Enterprise Linux 7.0 (onboard SATA AHCI mode x64)				
CentOS 6.5 (onboard SATA IDE mode x64)				

CentOS 6.5 (onboard SATA AHCI mode x64)				
CentOS 7.0 (onboard LSI 2008-Raid0 mode x64)				
CentOS 7.0 (onboard LSI 2008-Raid1 mode x64)				
SuSE Linux Enterprise Server 11 SP3 (onboard SATA IDE mode x64)			3.0.76-0.11	
SuSE Linux Enterprise Server 11 SP3 (onboard SATA AHCI mode x64)			3.0.76-0.11	
VMWare ESXi 5.1.0 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)				
Fedora 20 (onboard SATA IDE mode x64)				
Fedora 20 (onboard SATA AHCI mode x64)				

<b>Supported UEFI OSs</b>				
Windows 2008 R2 Datacenter Edition (onboard SATA AHCI mode x64)				
Windows Server 2012 R2 standard (onboard SATA AHCI mode x64)				
Windows Server 2012 R2 DataCenter (onboard SATA AHCI mode x64)				
Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)				
CentOS 6.5 (onboard SATA AHCI 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-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 7.0 (onboard SATA AHCI 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)				