

Manufacturer	Item Description	Test Results	Reference	Revision Firmware Stepping	
	<b>FC LGA1151 Processor (SKYLAKE)</b>		<b>Stepping level</b>	<b>P/N</b>	
				<b>FW</b>	
Intel	Haswell-EP Genuine Intel® CPU @ 2.20GHz (QEY6)	Pass	B-0	Haswell-EP	(14C 5.0GHz, 100GHz, 35MB)
Intel	Intel® Xeon® CPU E5-2603 v4 @ 1.70GHz (QKEV)	Pass	R-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2608L v4 @ 1.60GHz (QKF4)	Pass	R-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2609 v4 @ 1.70GHz (QKEW)	Pass	R-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2618L v4 @ 2.20GHz (QKF9)	Pass	R-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2637 v3 @ 3.5GHz (QGSP)	Pass	R-2	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2648L v4 @ 2.40GHz (QK9C)	Pass	M-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2650 v4 @ 2.20GHz (QK8Y)	Pass	M-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2658 v4 @ 2.30GHz (QK9A)	Pass	M-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2660 v4 @ 2.00GHz (QK8Z)	Pass	M-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2680 v4 @ 2.40GHz (QK92)	Pass	M-0	Broadwell-EP	
Intel	Intel® Xeon® CPU E5-2695 v3 @ 2.30GHz (QG7R)	Pass	C-0	Haswell-EP	(14C 28T 2.3GHz, 14x 256kB L2, 35MB L3)
Intel	Intel® Xeon® CPU E5-2695 v3 @ 2.30GHz (QGN4)	Pass	C-1	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2697 v3 @ 2.6GHz (QGN3)	Pass	C-1	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2698 v3 @ 3.60GHz (QGN2)	Pass	C-1	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2699 v3 @ 2.30GHz (QGEF)	Pass	C-0	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2699 v4 @ 2.20GHz (SR2JS)	Pass	B-0	Broadwell-EP	(22C 44T 3.59GHz, 3.6GHz IMC, 22x 256kB L2, 55MB L3)
Intel	Intel® Xeon® CPU E5-2609 v3 @ 1.90GHz (QGPN)	Pass	M-1	Haswell-EP	(6C 1.9GHz, 6x 256kB L2, 15MB L3)
Intel	Intel® Xeon® CPU E5-2630L v3 @ 1.80GHz (QGST)	Pass	R-2	Haswell-EP	(8C 16T 1.8GHz, 8x 256kB L2, 20MB L3)
Intel	Intel® Xeon® CPU E5-2643 v3 @ 3.40GHz (QGSR)	Pass	R-2	Haswell-EP	(6C 12T 3.39GHz, 6x 256kB L2, 20MB L3)
Intel	Intel® Xeon® CPU E5-2667 v3 @ 3.20GHz (QGSQ)	Pass	R-2	Haswell-EP	
Intel	Intel® Xeon® CPU E5-2687W v3 @ 3.10GHz (QGPG)	Pass	M-1	Haswell-EP	

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Register Memory			Model Name	P/N	Remark
Adata	4G DDR4 2133 R-DIMM	Pass	4GB DDR4 2133(15) 4GX9 R-DIMM	AD4R2133W4G15-BHYM	
ATP	8G DDR4 2133 R-DIMM	Pass	8GB DDR4 2133 ECC REG DIMM	A4B08QC4BLPBS0	Memory DC Line : 1.200V
Crucial	4G DDR4 2133 R-DIMM	Pass	4GB DDR4 2133 1.2v SRX8 R-DIMM	CT4G4RFS8213.9FA2	Memory DC Line : 1.200V
Crucial	8G DDR4 2133 R-DIMM	Pass	CT8G4RF84213.18FA2 (Micron MTA18ASF1G72PZ-2G1A2IG)	8GB DDR4-2133 1.2V 8R x4 RDIMM	Memory DC Line : 1.200V
Crucial	16G DDR4 2133 R-DIMM	Pass	16GB DDR4-2133 1.2V 2R*4	CT16G4RFD4213.36FA2 , MTA36ASF2G72PZ-2G1A2KK	
Crucial	32G DDR4 2133 R-DIMM	Pass	32G DDR4-2133 RDIMM 1.2	CT32G4RFD4213.36FA1	Approved on E5-2600 V4
Crucial	16G DDR4 2400 R-DIMM	Pass	16G DDR4-2400 RDIMM 1.2v	CT16G4RFD824A.18FA1	Approved on E5-2600 V4
InnoDisk	8G DDR4 2133 R-DIMM	Pass	8GB DDR4 2133 W/REG DIMM	M4RR-8GSQXC0G-DE84	
InnoDisk	16G DDR4 2133 R-DIMM	Pass	16GB DDR4 2133 W/REG DIMM	M4RR-AGSQXC0G-	
InnoDisk	16G DDR4 2400 R-DIMM	Pass	16GB DDR4-2400 REG DIMM	M4R0-AGS3ECSJ-E84	Approved on E5-2600 V4
Kingston	8G DDR4 2133 R-DIMM	Pass	9965589-001.A00G 8GB PC34100U	KVR21R15S4/8 8GB PC4-2133 CL15 RDIMM	1.2V
Kingston	8G DDR4 2133 R-DIMM	Pass	Model : HMA41GR7MFR8N-TF	KVR21R15D8/8 8GB PC4-2133 CL15 RDIMM	Memory DC Line : 1.200V
Kingston	16G DDR4 2133 R-DIMM	Pass	Module : Micron 36ASF2G72PZ-2G1A2	KVR21R15D4/16 16GB PC4-2133 CL15	Memory DC Line : 1.200V
Samsung	8G DDR4 2133 R-DIMM	Pass			
Samsung	16G DDR4 2133 R-DIMM	Pass	M393A2G40DB0-CPB 16GB PC34100U	Samsung 16GB 2Rx4 PC4-2133P-RA0-10-DC0	
Smart	16G DDR4 2133 R-DIMM	Pass	16GB 2Rx4 PC4-2133P	SH2047RD410451-SD	
Transcend	4G DDR4 2133 R-DIMM	Pass	4G 1Rx8 DDR4 2133 REG	TS512MHR72V1H_B59 162-0039	
Transcend	8G DDR4 2133 R-DIMM	Pass	8GB PC4-2133MHz	TS1GHR72V1H	
Transcend	16G DDR4 2133 R-DIMM	Pass	Transcend 16GB DDR4-2133 REG DIMM	TS2GHR72V1Z	
<b>NVDIMM</b>			<b>NVDIMM</b>	<b>P/N</b>	<b>SUPERCAP</b>

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Micron	8G DDR4 2133 NVDIMM	Pass	Micron NVDIMM : MTA18ASF1G72PF1Z-2G1Y1YAAESIG 8GB 1Rx4 PC4-2133P-RZZ-10	AGIGA9811-001BCA, 021504000001 89-05
Smart	8G DDR4 2133 NVDIMM	Pass	Smart NVDIMM : SH1027NR410451SD 8GB 1RX4 NN4-2133P-RZZ-10	SSC18041SMT0 031B
Viking	8G DDR4 2133 NVDIMM	Pass	Viking NVDIMM : VRA9MR8B2H16 8GB 1Rx4-2133P-RZZ-15	205746531, VRCP100FH30F
<b>USB 3.0 HDD</b>			<b>Model Number</b>	<b>P/N</b>
Bufflo	BUFFLO MiniStation USB3.0 1.0TB	Pass	HD-PCT1TU3/BW-AP	BUFFALO HD-PCTU3 1TB (USB) SATA
<b>SATA 3.5" HDD</b>			<b>Model Number</b>	<b>P/N</b>
Seagate	500GB, 7200 rpm, SATA-II 3.5 "	Pass	HDS725050KLA360	0A31004
WD	400GB, 7200 rpm, SATA-II 3.5 "	Pass	Caviar® SE16	WD4000AAKS Caviar® SE16
Seagate	4TB, 7200 rpm, SATA-III 3.5	Pass	ST4000NM0033	Consellation® ES.3 9ZM170-003 Z1Z26LFL
Seagate	1TB, 7200 rpm, SATA-III 3.5	Pass	ST1000NM0033	9ZM173-003 Consellation® ES.3
WD	3.5"/1TB/SATA III	Pass	WD1001FYYG-01SL3W1	NA
<b>SATA 2.5" HDD</b>			<b>Model Number</b>	<b>P/N</b>
Seagate	500GB,7200 rpm,SATA-II 2.5"	Pass	ST9500620NS	9RZ164-004
<b>SATA 2.5" SSD</b>			<b>Model Number</b>	<b>P/N</b>
SanDisk	SanDisk 2.5" SATA SD6SB1M-064G	Pass	X110 Solid State Drive	SD6SB1M-064G
<b>NIC CARDS (see motherboard section for LOM)</b>			<b>Model Number</b>	<b>P/N</b>
INTEL	Intel 2.5" SATA SSDSC2BW080A4 530 Series 80GB	Pass	BTDA40320ARP0806GN	SSDSC2BW080A4 SSDSC2BW080 A4 (80GB, SATA600, 2.5", SSD)
<b>SATA M.2 SSD</b>			<b>Model Number</b>	<b>P/N</b>
Apacer	Apacer flash Driv 32GB (SATA 600, 1",SSD)	Pass	APM2T80A201032GD-BTM	81.5CER2.5T010BB
ATP	ATP M.2 2242 SSD SATA III 6Gb/s, AF32GSMIA-VAAXP	Pass	ATP M.2 2242 SSD SATA III 6Gb/s	AF32GSMIA-VAAXP
Innodisk	Innodisk M.2 (S80) 3ME 128GB (SATA 600, 1",SSD)	Pass	M.2 (S80) 3ME	DEM28-A28D06SCAQC 128GB
Netlist	NETLIST SSD128GB-002 (128GB, SATA600, M.2, SSD)	Pass	SSD128GB-002, M.2 2242	(128GB, SATA600, M.2, SSD)
Samsung	Samsung MZHPU128HCGM-00000 (128GB, PCIe600, M.2, SSD)	Pass	MZHPU128HCGM-00000	(128GB, PCIe600, M.2, SSD)
Transcend	Transcend TS256GMTS800 256GB (SATA 600, 1",SSD)	Pass	TS256GMTS800	(256GB, SATA600, SSD) N0815B
Transcend	Transcend TS128GMTS800 128GB (SATA 600, 1",SSD)	Pass	TS128GMTS800	(128GB, SATA600, SSD)

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Transcend	Transcend TS64GMTS800 64GB (SATA 600, 1",SSD, 32M Cache)	Pass	TS64GMTS800	(64GB, SATA600, SSD, 32MB Cache)
Transcend	Transcend TS32GMTS800 32GB (SATA 600, 1",SSD, 32M Cache)	Pass	TS32GMTS800	(32GB, SATA600, SSD, 32MB Cache)
Unigen	Unigen(TOSHIBA) 1533-128G M.2 2242 SATA3 SSD	Pass	UBM2TPS128HZM3-FTF	(128GB, SATA3, M.2, SSD)
Unigen	Unigen 128GB M.2 2242 SATA SSD	Pass	UBM3MAC128HCM1-FTG-UGN	(128GB, SATA600, SSD)
<b>SATA DOM SSD</b>			<b>Model Name</b>	<b>P/N</b>
Netlist	NETLIST SSD128GB-005 (126.7GB, SATA600, SSD)	Pass	SSD128GB-005	(126.7GB, SATA600, 2.5", SSD)
<b>NIC CARDS (see motherboard section for LOM)</b>			<b>Model Name</b>	<b>P/N</b>
Intel	Intel X540T2, PCIe v2.1 (5.0GT/s)	Pass	Intel® Ethernet Converged Network Adapter X540-T2	31F87C503ADG452700 3, 914248
Mellanox	Mellanox IB MCX354A-QCB Gen3	Pass		
Mellanox	Mellanox MCX353A-FCBT	Pass		MT1317X01681
Mellanox	Mellanox IB MCB193A-FCAT	Pass		
<b>HBA &amp; Raid</b>			<b>Model Name</b>	<b>S/N, P/N</b>
Adaptec	ASR-8805 SGL	Pass		3A50134D4C9, 2277500-R
Adaptec	ASR-7805 SGL	Pass		2A46121CCC4, 2274100-R
Adaptec	ASA-7805H SGL	Pass		3A261331231, 2280800-R
Adaptec	Adaptec RAID 71605Q	Pass		
LSI	SAS 9300-8e	Pass		SV34920884, H5-25460-02E
LSI	SAS 9300-4i4e	Pass		SV43715355 H5-25515-00F
LSI	SAS 9207-8i	Pass	LSI SAS9207-8i Gen3	SV34319186 H3-25412-00H
LSI	SAS 9207-8e	Pass	LSI SAS9207-8e Gen3	SV35102815, H3-25427-02H
LSI	SAS 9200-8e	Pass		SP34308437, H3-25260-02F
LSI	SAS 9361-8i	Pass		SV43521119 03-25420-01D
LSI	MegaRAID SAS 9380-4i4e	Pass		SV44137660 03-25190-02D

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LSI	SAS 9207-8e SV35102815 H3-25427-02H	Pass		SV34920884, H5-25460-02E
	<b>ODD</b>		<b>Model Name</b>	<b>P/N</b>
LITEON	LITEON eSAU108-113 4 8X USB EXTERNAL DVD/CD Writer	Pass	eSAU108-113 4	XXX
	<b>SATA DVD/CD-RW (half height)</b>		<b>Model Name</b>	<b>P/N</b>
LITEON	LITEON DVD/CD REWRITABLE DRIVE	Pass	DH-20A3S	XXX
	<b>FDD</b>		<b>Model Name</b>	<b>P/N</b>
MITSUMI	MITSUMI D353FUE, USB ,1.44MB	Pass	D353FUE	XXX
	<b>USB device</b>		<b>Model Name</b>	<b>P/N</b>
BELKIN	BELKIN Hi-speed USB 2.0 4-Port Lighted Hub	Pass		F5U403
Microsoft	Microsoft Comfort Optical Mouse 3000	Pass	1043	X812481-003
Microsoft	Microsoft Comfort Curve Keyboard 2000	Pass	1047	x802645-004
SanDisk	SanDisk Extreme ® USB 3.0隨身碟 SDCZ80-016G-A75	Pass	USB 3.0	16G
Transcend	Transcend JetFlash®780	Pass	USB 3.0	8G
	<b>Supported OSs</b>			<b>Kernel version</b>
	CentOS 6.5 (onboard SATA AHCI mode x64)	Pass		
	CentOS 6.5 (onboard SATA IDE mode x64)	Pass		
	CentOS 7.0 (onboard LSI 2008-Raid0 mode x64)	Pass		
	CentOS 7.0 (onboard LSI 2008-Raid1 mode x64)	Pass		
	Fedora 20 (onboard SATA AHCI mode x64)	Pass		
	Fedora 20 (onboard SATA IDE mode x64)	Pass		
	Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)	Pass		
	Red Hat Enterprise Linux 6.5 (onboard SATA-Raid0 mode x64)	Pass		
	Red Hat Enterprise Linux 6.5 (onboard SATA-Raid1 mode x64)	Pass		
	Red Hat Enterprise Linux 7.0 (onboard SATA AHCI mode x64)	Pass		
	SuSE Linux Enterprise Server 11 SP3 (onboard SATA AHCI mode x64)	Pass		3.0.76-0.11
	SuSE Linux Enterprise Server 11 SP3 (onboard SATA IDE mode x64)	Pass		3.0.76-0.11
	Ubuntu Server 12.04.2 (onboard SATA AHCI mode x64)	Pass		
	Ubuntu Server 12.04.2 (onboard SATA IDE mode x64)	Pass		
	VMWare ESXi 5.1.0 update 1 (onboard SATA IDE mode x64)	Pass		
	VMWare ESXi 5.5.0 update 1 (onboard SATA AHCI mode x64)	Pass		
	Windows 2008 R2 Datacenter Edition (onboard SATA AHCI mode x64)	Pass		
	Windows 2008 R2 Enterprise Edition (onboard SATA AHCI mode x64)	Pass		
	Windows 2008 R2 Standard Edition (onboard SATA AHCI mode x64)	Pass		

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	Windows Server 2012 DataCenter (onboard LSI 2008-Raid0 mode x64)	Pass		
	Windows Server 2012 DataCenter (onboard LSI 2008-Raid1 mode x64)	Pass		
	Windows Server 2012 DataCenter (onboard SATA AHCI mode)	Pass		
	Windows Server 2012 DataCenter (onboard SATA IDE mode)	Pass		
	Windows Server 2012 standard (onboard SATA AHCI mode x64)	Pass		
	Windows Server 2012 standard (onboard SATA IDE mode x64)	Pass		
	Windows Server 2012 standard (onboard SATA-Raid0 mode)	Pass		
	Windows Server 2012 standard (onboard SATA-Raid1 mode)	Pass		
	<b>Supported UEFI OSs</b>			
	Windows 2008 R2 Datacenter Edition (onboard SATA AHCI mode x64)	Pass		
	Windows Server 2012 R2 standard (onboard SATA AHCI mode)	Pass		
	Windows Server 2012 R2 DataCenter (onboard SATA AHCI mode x64)	Pass		
	Red Hat Enterprise Linux 6.5 (onboard SATA AHCI mode x64)	Pass		
	CentOS 6.5 (onboard SATA AHCI mode x64)	Pass		
	CentOS 7.0 (onboard SATA AHCI mode x64)	Pass		