

1. Stability Test: Rev.021

1.1 CPU Test:

Procedure:

- (1) Install O.S.**
- (2) Check CPU information & specification with CPU-Z.**
- (3) Run Passmark Performance Test 8.0 Build1027 - 5 minutes.**
- (4) Run 3DMark for Windows Ver.1.2.362 BenchMark - 3 times.**
- (5) Check CPU temperature in the BIOS after running 3DMark.**
- (6) Run S3/S4/S5 - 3 times.**

No.	CPU	Type	CPU Temp.	Result
1	Intel / 3.5GHz	Core i7-4770K (Haswell/C0-SR147) / 84W / LGA1150	30 °C	Pass
2	Intel / 3.1GHz	Core i7-4770S (Haswell/C0-SR14H) / 65W / LGA1150	51 °C	Pass
3	Intel / 2.3GHz	Core i7-4770TE (Haswell/C0-SR183) / 45W / LGA1150	29 °C	Pass
4	Intel / 2.0GHz	Core i7-4765T (Haswell/C0-SR14Q) / 35W / LGA1150	53 °C	Pass
5	Intel / 2.3GHz	Core i5-4670T (Haswell/C0-SR14P) / 45W / LGA1150	46 °C	Pass
6	Intel / 3.1GHz	Core i5-4670S (Haswell/C0-SR14K) / 65W / LGA1150	37 °C	Pass
7	Intel / 3.4GHz	Core i5-4670K (Haswell/C0-SR14A) / 84W / LGA1150	34 °C	Pass
8	Intel / 2.7GHz	Core i5-4570TE (Haswell/C0-SR17Z) / 35W / LGA1150	30 °C	Pass
9	Intel / 2.9GHz	Core i5-4570S (Haswell/C0-SR14J) / 65W / LGA1150	41 °C	Pass
10	Intel / 2.3GHz	Xeon Processor E3-1268L V3 (Haswell/C0-SR17Y) / 45W / LGA1150	32 °C	Pass

Procedure:

- (1) Install O.S.**
- (2) Check CPU information & specification with CPU-Z.**
- (3) Run Passmark Performance Test 8.0 Build1027 - 5 minutes.**
- (4) Run 3DMark 2006 Demo Edition Build Ver.1.2.1 BenchMark - 3 times.**
- (5) Check CPU temperature in the BIOS after running 3DMark.**
- (6) Run S3/S4/S5 - 3 times.**

No.	CPU	Type	CPU Temp.	Result
1	Intel / 3.5GHz	Core i3-4330 (Haswell/C0-SR1NM) / 54W / LGA1150	30 °C	Pass
2	Intel / 3.2GHz	Pentium-G3420 (Haswell/C0-SR1NB) / 54W / LGA1150	33 °C	Pass
3	Intel / 2.3GHz	Pentium-G3320TE (Haswell/C0-SR181) / 35W / LGA1150	29 °C	Pass
4	Intel / 2.4GHz	Core i3-4330TE (Haswell/C0-SR180) / 35W / LGA1150	30 °C	Pass

1.2 DDR3 Module Test:

Procedure:

- (1) Install O.S.
- (2) Check CPU information & specification with CPU-Z.
- (3) Run Passmark Performance Test 8.0 Build1027 - 5 minutes.
- (4) Run AIDA64 Cache and Memory Benchmark Ver.4.20.2800 - 1 time.
- (5) Run 3DMark for Windows Ver.1.2.362 BenchMark - 3 times or
3DMark 2006 Demo Edition Build Ver.1.2.1 BenchMark - 3 times.
- (6) Run S3/S4/S5 - 3 times.

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Kingston	Kingston	8GB	PC3-12800 (DDR3-1600)	D5128JC4BPGGBU	KVR16N11/8 1.5V [512Mx8b-x16/1024Mx64b, CL=11]	Pass
2	Kingston	Kingston	8GB	PC3-12800 (DDR3-1600)	D5128JC4BPGGBU	KVR16N11H/8 1.5V [512Mx8b-x16/1024Mx64b, CL=11]	Pass
3	Crucial	Micron	8GB	PC3-12800 (DDR3L-1600)	2RE17D9QBJ	CT102464BD160B.16FED(MT16K TF1G64AZ-1G6E1) 1.35V/1.5V [512Mx8b-x16/1024Mx64b,CL=1 1-11-11-30]	Pass
4	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	78.B1GE3.AF10C 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
5	Hynix	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT351U6BFR8C-PBNO 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
6	ADATA	Micron	4GB	PC3-12800 (DDR3-1600)	2GKI2-D9PSH	AD3U1600C4G11-BMIK 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
7	Transcend	SEC	4GB	PC3-12800 (DDR3-1600)	K4B2G0846Q	TS512MLK64V6N 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
8	Apacer	SEC	4GB	PC3-12800 (DDR3-1600)	K4B4G0846D	76.B171G.C4W0C 1.5V [512Mx8b-x8/512Mx64b,CL=11]	Pass
9	INNODISK	Micron	4GB	PC3-12800 (DDR3L-1600)	1WM77-D9PFJ	M3UP-4GMJAL0C-M 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
10	Hynix	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT325U6BFR8C-PBNO 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
11	Apacer	SEC	2GB	PC3-12800 (DDR3-1600)	K4B2G0846Q	76.A171G.C5N0C 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
12	INNODISK	Micron	2GB	PC3-12800 (DDR3L-1600)	1WM77-D9PFJ	M3UP-2GMJBL0C-M 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
13	Transcend	Micron	8GB	PC3-10600 (DDR3-1333)	1ZD27-D9PBC/2CD27-DP9BC	TS1GLK64V3H 1.5V [512Mx8b-x16/1Gx64b,CL=9]	Pass

14	DSL	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3UH56082XH15AA 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
15	Kingston	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	KVR1333D3N9/4G 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
16	Transcend	Transcend	2GB	PC3-10600 (DDR3-1333)	TK243WAF3	JM1333KLU-2G 1.5V [128Mx8b/256Mx64b,CL=9-9-9]	Pass
17	INNODISK	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	M3UN-2GHFAC09-B 1.5V [128Mx8b/256Mx64b]	Pass
18	Apacer	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	78.A1GDE.AF00C 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass



No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
19	DSL	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3UH56081XH15AA 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
20	Transcend	ELPIDA	2GB	PC3-10600 (DDR3-1333)	J1108BDBG-DJ-F	TS256MLK64V3U 1.5V [128Mx8b-x16/256Mx64b,CL=9]	Pass
21	Crucial	Micron	2GB	PC3-10600 (DDR3-1333)	MT8JTF25664AZ-1G4D1	CT25664BA1339.8FD 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
22	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846Q	TS256MLK64V3N 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
23	Apacer	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846Q	76.A171G.C320C 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
24	Kingston	ELPIDA	1GB	PC3-10600 (DDR3-1333)	J1108BABG-DJ-E	KVR1333D3N9/1G 1.5V	Pass
25	ADATA	ADATA	1GB	PC3-10600 (DDR3-1333)	AD30908C8D-151G	AD3133300210U(AD63I1A08) 1.5V±0.75 [1GX8,CL=9]	Pass
26	DSL	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	D3UH28081XH15AA 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
27	Apacer	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	78.01GC6.AF0 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
28	Transcend	SEC	2GB	PC3-8500 (DDR3-1066)	K4B1G0846D	TS256MLK64V1U 1.5V [128Mx8b/256Mx64b,CL=7-7-7]	Pass
29	Kingston	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BDBG-DJ-F	KVR1066D3N7/1GB 1.5V [128MX64,CL=7-7-7-20]	Pass
30	Transcend	SEC	1GB	PC3-8500 (DDR3-1066)	K4B1G0846D	TS128MLK64V1U 1.5V [128Mx8b/128Mx64b,CL=7-7-7]	Pass
31	ADATA	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	SU3U1066B1G7-B 1.5V [1Gx8,CL=7]	Pass

1.3 DDR3 Module Test Procedures:

Procedure:

- (1) Install O.S.**
- (2) Check CPU information & specification with CPU-Z.**
- (3) Run Passmark Performance Test 8.0 Build1027 - 5 minutes.**
- (4) Run AIDA64 Cache and Memory Benchmark Ver.4.20.2800 - 1 time.**
- (5) Run 3DMark for Windows Ver.1.2.362 BenchMark - 3 times or
3DMark 2006 Demo Edition Build Ver.1.2.1 BenchMark - 3 times.**
- (6) Run S3/S4/S5 - 3 times.**

No.	DDR3 Module	Test Environment	Result
1	Kingston (KVR16N11/8 1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Kingston (D5128JC4BPGGBU) / PC3-12800 (DDR3-1600) / 8GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100024) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770K (Haswell/C0-SR147) / 3.5GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:2551 2.AIDA64 Cache and Memory Benchmark(V4.20.2800) READ:23889MB/s WRITE:24745MB/s COPY:23381MB/s 3.3DMark for Windows Fire Strike Extreme:376 Fire Strike:808 Cloud Gate:5164 Ice Storm Unlimited:51041 Ice Storm Extreme:36368 Ice Storm:56455	Pass

2	<p>Kingston (KVR16N11H/8 1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Kingston (D5128JC4BPGGBU) / PC3-12800 (DDR3-1600) / 8GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4765T (Haswell/C0-SR14Q) / 2.0GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1671 2.AIDA64 Cache and Memory Benchmark READ:12275MB/s WRITE:12479MB/s COPY:12516MB/s 3.3DMark for Windows Fire Strike Extreme:245 Fire Strike:553 Cloud Gate:4858 Ice Storm Unlimited:42828 Ice Storm Extreme:23882 Ice Storm:38278 Overnight looping under 11 hours</p>	Pass
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No.	DDR3 Module	Test Environment	Result
3	Crucial (CT102464BD160B.16FED (MT16KTF1G64AZ-1G6E1) 1.35V/1.5V) [512Mx8b-x16/1024Mx64b, CL=11-11-11-30] / Micron (2REI7D9QBJ) / PC3-12800 (DDR3L-1600) / 8GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:2243 2.AIDA64 Cache and Memory Benchmark READ:23400MB/s WRITE:23494MB/s COPY:22393MB/s 3.3DMark for Windows Fire Strike Extreme:321 Fire Strike:697 Cloud Gate:5887 Ice Storm Unlimited:46815 Ice Storm Extreme:29310 Ice Storm:45488	Pass



4	<p>Apacer (78.B1GE3.AF10C 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 0) Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1694 2.AIDA64 Cache and Memory Benchmark READ:12391MB/s WRITE:12492MB/s COPY:12701MB/s 3.3DMark for Windows Fire Strike Extreme:323 Fire Strike:712 Cloud Gate:6356 Ice Storm Unlimited:60034 Ice Storm Extreme:35277 Ice Storm:56494</p>	Pass
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No.	DDR3 Module	Test Environment	Result
5	Hynix (HMT351U6BFR8C-PBNO 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i5-4670T (Haswell/C0-SR14P) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:2259 2.AIDA64 Cache and Memory Benchmark READ:24286MB/s WRITE:24850MB/s COPY:22954MB/s 3.3DMark for Windows Fire Strike Extreme:355 Fire Strike:740 Cloud Gate:5682 Ice Storm Unlimited:52351 Ice Storm Extreme:32949 Ice Storm:51714	Pass

6	<p>ADATA (AD3U1600C4G11-BMIK 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2GKI2-D9PSH) / PC3-12800 (DDR3-1600) / 4GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:4866 2.AIDA64 Cache and Memory Benchmark READ:23831MB/s WRITE:25643MB/s COPY:20866MB/s 3.Running 3DMark06 Score:4866</p>	Pass
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7	<p>Transcend (TS512MLK64V6N 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / SEC (K4B2G0846Q) / PC3-12800 (DDR3-1600) / 4GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 11) Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:2141 2.AIDA64 Cache and Memory Benchmark READ:24172MB/s WRITE:24919MB/s COPY:23553MB/s 3.3DMark for Windows Fire Strike Extreme:315 Fire Strike:671 Cloud Gate:5957 Ice Storm Unlimited:45864 Ice Storm Extreme:28201 Ice Storm:44868</p>	Pass
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No.	DDR3 Module	Test Environment	Result
8	Apacer (76.B171G.C4W0C 1.5V) [512Mx8b-x8/512Mx64b,CL=11] / SEC (K4B4G0846D) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:2181 2.AIDA64 Cache and Memory Benchmark READ:22881MB/s WRITE:23259MB/s COPY:18392MB/s 3.Running 3DMark06 Score:4777	Pass



9	<p>INNODISK (M3UP-4GMJAL0C-M 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (1WM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Silicon Power / SP120GBSS3V60S25 SATA3 120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 1) Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1494 2.AIDA64 Cache and Memory Benchmark READ:12354MB/s WRITE:12480MB/s COPY:12596MB/s 3.3DMark for Windows Fire Strike Extreme:262 Fire Strike:585 Cloud Gate:5425 Ice Storm Unlimited:43465 Ice Storm Extreme:26080 Ice Storm:42697 Overnight looping under 11 hours</p>	Pass
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10	<p>Hynix (HMT325U6BFR8C-PBNO 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 2GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100024) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i5-4570S (Haswell/C0-SR14J) / 2.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1973 2.AIDA64 Cache and Memory Benchmark READ:23366MB/s WRITE:24031MB/s COPY:21707MB/s 3.3DMark for Windows Fire Strike Extreme:351 Fire Strike:769 Cloud Gate:6511 Ice Storm Unlimited:60108 Ice Storm Extreme:34610 Ice Storm:59197</p>	Pass
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No.	DDR3 Module	Test Environment	Result
11	22753Apacer (76.A171G.C5N0C 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / SEC (K4B2G0846Q) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1502 2.AIDA64 Cache and Memory Benchmark READ:22931MB/s WRITE:22077MB/s COPY:20136MB/s 3.3DMark for Windows Fire Strike Extreme:319 Fire Strike:670 Cloud Gate:5805 Ice Storm Unlimited:48197 Ice Storm Extreme:29698 Ice Storm:46507	Pass

12	<p>INNODISK (M3UP-2GMJBL0C-M 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Micron (1WM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 2GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 4) Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1438 2.AIDA64 Cache and Memory Benchmark READ:23581MB/s WRITE:23459MB/s COPY:21386MB/s 3.3DMark for Windows Fire Strike Extreme:296 Fire Strike:656 Cloud Gate:5796 Ice Storm Unlimited:45491 Ice Storm Extreme:27781 Ice Storm:44578</p>	Pass
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No.	DDR3 Module	Test Environment	Result
13	Transcend (TS1GLK64V3H 1.5V) [512Mx8b-x16/1Gx64b,CL=9] / Micron (1ZD27-D9PBC/2CD27-DP9BC) / PC3-10600 (DDR3-1333) / 8GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100024) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i5-4570TE (Haswell/C0-SR17Z) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:2128 2.AIDA64 Cache and Memory Benchmark READ:18772MB/s WRITE:20754MB/s COPY:19654MB/s 3.3DMark for Windows Fire Strike Extreme:224 Fire Strike:466 Cloud Gate:4224 Ice Storm Unlimited:31281 Ice Storm Extreme:20849 Ice Storm:33041	Pass



14	<p>DSL (D3UH56082XH15AA 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 4GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006)</p> <p>M/B BIOS: AMI-Aptio 01/16/2014</p> <p>M/B Driver: Demo Jan/15/2014</p> <p>CPU: Intel / Xeon Processor E3-1268L V3 (Haswell/C0-SR17Y) / 2.3GHz</p> <p>DIMM Slot: DIMM-2 (Single channel)</p> <p>SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 8)</p> <p>Power: Jagier / KY-580ATX 480W</p> <p>O.S.: Windows 7 Ultimate 32Bit (English) & SP1</p> <p>Test Summary: 1.Passmark Performance Test Memory Mark:1211</p> <p>2.AIDA64 Cache and Memory Benchmark READ:10343MB/s WRITE:10432MB/s COPY:10557MB/s</p> <p>3.3DMark for Windows Fire Strike Extreme:252 Fire Strike:565 Cloud Gate:5185 Ice Storm Unlimited:43985 Ice Storm Extreme:25337 Ice Storm:41727</p>	Pass
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15	<p>Kingston (KVR1333D3N9/4G 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 4GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Pentium-G3420 (Haswell/C0-SR1NB) / 3.2GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:2265 2.AIDA64 Cache and Memory Benchmark READ:18920MB/s WRITE:20598MB/s COPY:17875MB/s 3.3DMark06 Score:4099</p>	Pass
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No.	DDR3 Module	Test Environment	Result
16	Transcend (JM1333KLU-2G 1.5V) [128Mx8b/256Mx64b,CL=9-9-9] / Transcend (TK243WAF3) / PC3-10600 (DDR3-1333) / 2GB *1	M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Pentium-G3320TE (Haswell/C0-SR181) / 2.3GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:2533 2.AIDA64 Cache and Memory Benchmark READ:9905MB/s WRITE:10013MB/s COPY:9239MB/s 3.3DMark06 Score:2533 Overnight looping under 11 hours	Pass



17	<p>INNODISK (M3UN-2GHFAC09-B 1.5V) [128Mx8b/256Mx64b] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i5-4670S (Haswell/C0-SR14K) / 3.1GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 9) Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1185 2.AIDA64 Cache and Memory Benchmark READ:10395MB/s WRITE:10413MB/s COPY:10462MB/s 3.3DMark for Windows Fire Strike Extreme:310 Fire Strike:604 Cloud Gate:3387 Ice Storm Unlimited:37925 Ice Storm Extreme:25817 Ice Storm:36266</p>	Pass
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18	<p>Apacer (78.A1GDE.AF00C 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:1867 2.AIDA64 Cache and Memory Benchmark READ:19654MB/s WRITE:20674MB/s COPY:16353MB/s 3.3DMark06 Score:4414</p>	Pass
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No.	DDR3 Module	Test Environment	Result
19	DSL (D3UH56081XH15AA 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 2) Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1697 2.AIDA64 Cache and Memory Benchmark READ:19930MB/s WRITE:20056MB/s COPY:18799MB/s 3.3DMark for Windows Fire Strike Extreme:293 Fire Strike:653 Cloud Gate:5802 Ice Storm Unlimited:45692 Ice Storm Extreme:27692 Ice Storm:44699	Pass



20	<p>Transcend (TS256MLK64V3U 1.5V) [128Mx8b-x16/256Mx64b,CL=9] / ELPIDA (J1108BDBG-DJ-F) / PC3-10600 (DDR3-1333) / 2GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1 (Single channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:1162 2.AIDA64 Cache and Memory Benchmark READ:10090MB/s WRITE:10706MB/s COPY:9393MB/s 3.3DMark06 Score:3059 Overnight looping under 12 hours</p>	Pass
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21	<p>Crucial (CT25664BA1339.8FD 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Micron (MT8JTF25664AZ-1G4D1) / PC3-10600 (DDR3-1333) / 2GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CW120A3K5 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: 1.Passmark Performance Test Memory Mark:1470 2.AIDA64 Cache and Memory Benchmark READ:19787MB/s WRITE:19579MB/s COPY:18282MB/s 3.3DMark for Windows Fire Strike Extreme:299 Fire Strike:634 Cloud Gate:4116 Ice Storm Unlimited:42458 Ice Storm Extreme:27822 Ice Storm:42658 Overnight looping under 12 hours</p>	Pass
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No.	DDR3 Module	Test Environment	Result
22	Transcend (TS256MLK64V3N 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / SEC (K4B2G0846Q) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray (USB port 1)0 Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1454 2.AIDA64 Cache and Memory Benchmark READ:19272MB/s WRITE:18662MB/s COPY:17422MB/s 3.3DMark for Windows Fire Strike Extreme:307 Fire Strike:655 Cloud Gate:5691 Ice Storm Unlimited:47676 Ice Storm Extreme:29506 Ice Storm:46072 Overnight looping under 11 hours	Pass

23	<p>Apacer (76.A171G.C3Z0C 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / SEC (K4B2G0846Q) / PC3-10600 (DDR3-1333) / 2GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:1541 2.AIDA64 Cache and Memory Benchmark READ:19685MB/s WRITE:20772MB/s COPY:16447MB/s 3.3DMark06 Score:4856</p>	Pass
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24	<p>Kingston (KVR1333D3N9/1G 1.5V) / ELPIDA (J1108BABG-DJ-E) / PC3-10600 (DDR3-1333) / 1GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i5-4670K (Haswell/C0-SR14A) / 3.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1424 2.AIDA64 Cache and Memory Benchmark READ:19905MB/s WRITE:20215MB/s COPY:18824MB/s 3.3DMark for Windows Fire Strike Extreme:310 Fire Strike:777 Cloud Gate:6667 Ice Storm Unlimited:64962 Ice Storm Extreme:44107 Ice Storm:33115</p>	Pass
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No.	DDR3 Module	Test Environment	Result
25	ADATA (AD3133300210U(AD6311A08) 1.5V±0.75) [1GX8,CL=9] / ADATA (AD30908C8D-151G) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:1293 2.AIDA64 Cache and Memory Benchmark READ:19828MB/s WRITE:20995MB/s COPY:16563MB/s 3.3DMark06 Score:4944	Pass
26	DSL (D3UH28081XH15AA 1.5V) [128Mx8b-*8/128Mx64b,CL=9] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:1370 2.AIDA64 Cache and Memory Benchmark READ:19688MB/s WRITE:20154MB/s COPY:16535MB/s 3.3DMark06 Score:5020	Pass



27	<p>Apacer (78.01GC6.AF0 1.5V) [128Mx8b-x8/128Mx64b,CL=9] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 1GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i3-4330 (Haswell/C0-SR1NM) / 3.5GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:1382 2.AIDA64 Cache and Memory Benchmark READ:18915MB/s WRITE:19757MB/s COPY:16295MB/s 3.3DMark06 Score:4380</p>	Pass
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No.	DDR3 Module	Test Environment	Result
28	Transcend (TS256MLK64V1U 1.5V) [128Mx8b/256Mx64b,CL=7-7-7] / SEC (K4B1G0846D) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100006) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: 1.Passmark Performance Test Memory Mark:1401 2.AIDA64 Cache and Memory Benchmark READ:15808MB/s WRITE:15801MB/s COPY:15640MB/s 3.3DMark for Windows Fire Strike Extreme:307 Fire Strike:666 Cloud Gate:5631 Ice Storm Unlimited:47185 Ice Storm Extreme:29232 Ice Storm:45785	Pass

<p>29</p>	<p>Kingston (KVR1066D3N7/1GB 1.5V) [128MX64,CL=7-7-7-20] / ELPIDA (J1108BDBG-DJ-F) / PC3-8500 (DDR3-1066) / 1GB *1</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i3-4330TE (Haswell/C0-SR180) / 2.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD360ADFD SATA1 NCQ 36GB/10000RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:575 2.AIDA64 Cache and Memory Benchmark READ:7882MB/s WRITE:7717MB/s COPY:6878MB/s 3.3DMark06 Score:2463</p>	<p>Pass</p>
<p>30</p>	<p>Transcend TS128MLK64V1U 1.5V) [128Mx8b/128Mx64b,CL=7-7-7] / SEC (K4B1G0846D) / PC3-8500 (DDR3-1066) / 1GB *2</p>	<p>M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 Test Summary: 1.Passmark Performance Test Memory Mark:1446 2.AIDA64 Cache and Memory Benchmark READ:15984MB/s WRITE:16770MB/s COPY:13406MB/s 2.3DMark06 Score:4280</p>	<p>Pass</p>



No.	DDR3 Module	Test Environment	Result
31	ADATA (SU3U1066B1G7-B 1.5V) [1Gx8,CL=7] / ELPIDA (J1108BABG-DJ-E) / PC3-8500 (DDR3-1066) / 1GB *2	M/B: HD620-H81C Rev.2 (021) (BME120100026) M/B BIOS: AMI-Aptio 01/16/2014 M/B Driver: Demo Jan/15/2014 CPU: Intel / Core i7-4770S (Haswell/C0-SR14H) / 3.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: 1.Passmark Performance Test Memory Mark:1231 2.AIDA64 Cache and Memory Benchmark READ:15860MB/s WRITE:16695MB/s COPY:13492MB/s 3.3DMark06 Score:4357	Pass

