

# 1. Qualification Test: Rev.021

## 1.1 CPU Function Test:

<b>Test Purpose</b>	Test CPU functions work normally under Windows Operating System
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. Install Windows Operating System</li> <li>2. Install M/B Device Driver</li> <li>3. CPU-Z check CPU info</li> <li>4. Run AIDA64 Cache and Memory Benchmark Ver.5.60.3700 1 time</li> <li>5. Run Passmark Performance Test 8.0 Build1053 1 time</li> <li>6. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times</li> <li>7. S3/Hibernate Test 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for all tests

No.	CPU	Type	CPU Temp.	Result
1	Intel / 3.0GHz	Core i5-3550S (IvyBridge/E1-SR0P3) / LGA1155	41 °C	Pass

## 1.2 Memory Function Test:

<b>Test Purpose</b>	Test Memory functions work normally under Windows Operating System
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. Install Windows Operating System</li> <li>2. Install M/B Device Driver</li> <li>3. Run AIDA64 Cache and Memory Benchmark Ver.5.60.3700 1 time</li> <li>4. Run Passmark Performance Test 8.0 Build1053 1 time</li> <li>5. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times</li> <li>6. S3/Hibernate Test 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for the test

### 1.2.1 DDR3 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Transcend	SEC	4GB	PC3L-12800 (DDR3L-1600)	K4B4G0846D	TS512MLK64W6H 1.35V [512Mx8b-x8/512Mx64b,CL=11]	Pass

#### 1.2.1.1 DDR3 Module Test Procedures:

No.	DDR3 Module	Test Environment	Result
1	Transcend (TS512MLK64W6H 1.35V) [512Mx8b-x8/512Mx64b,CL=11] / SEC (K4B4G0846D) / PC3L-12800 (DDR3L-1600) / 4GB *1	System: WM343-MB Rev.021 (750-WM3430-000G) M/B: MB330-CRM Rev.A (0A2) M/B BIOS: AMI-Aptio 11/27/2015 M/B Driver: Demo ver.1.0.A0.5.Q CPU: Intel / Core i5-3550S (IvyBridge/E1-SROP3) / 3.0GHz CPU Cooler: COOLER,101x44.8mm,SAFETY,12V,0.2A,200mm,3600RPM, 2.54,4PIN,5PIN,AFB0812MDA01,,AL606-T5,SCREW, Delta,FHSA8020B-1649,RoHS DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3000VN0001 SATA 6Gb/s 3TB 3.5" 7200RPM Display: On Board (using DVI) DVD-ROM: Asus / SDRW-08D2S-U USB2.0 8X Power: Delta / DPS-250AB-24 H 250W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:24.2°C CPU Temp.:40°C CPU Temp. after 3DMark:41°C 1.AIDA64 Cache and Memory Benchmark ver.5.60.3700 READ:11377 MB/s WRITE:11051 MB/s COPY:10758 MB/s 2. Passmark PerformanceTest 8.0 Build 1053 CPU Mark:6448 Memory Mark:1538 3.3DMark for Windows ver.1.5.915 Cloud Gate:2975 Ice Storm Extreme:18987 Skydiver:927 Fire Strike:278	Pass