

# BP-214SH-P8E4

## Temperature/Humidity Test Report

Report NO: 13I020002

Summary	<p><input checked="" type="checkbox"/> <b>Pass</b></p> <p><input type="checkbox"/> <b>Fail</b></p> <p>Note : There is/are ____ defect(s) not list in the report, please check it in the DTS Website.</p> <p><input type="checkbox"/> <b>Pass with Deviation</b></p>
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**Issue date**

**2013-01-08**

**Approval**

**Tom Lin**

**Test Engineer**

**Matthew Chi**

# Test item list

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## Testing Result

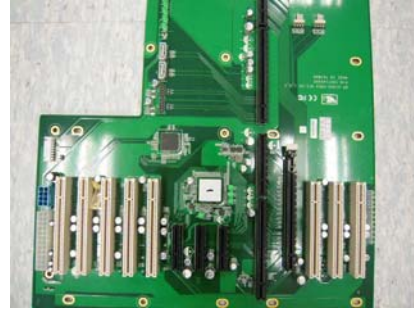
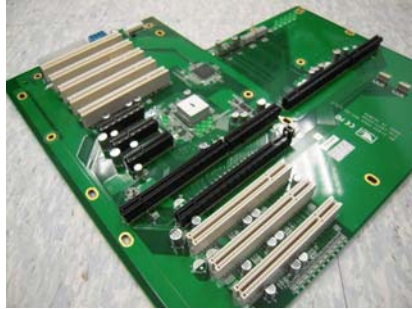
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	

# Configuration of EUT

## Test Product: BP-214SH-P8E4 A0.1

### Sample Configuration & Quantity Under Test:

1. CPU board: FSB-B75H A1.0
2. CPU: Intel Core i7-3770 CPU 3.40GHz
3. BIOS: FSB-B75H R1.0(08/20/2012)
4. Chipset: INTEL B75
5. Memory: Transcend 8G DDR3 1600 SODIMM x2
6. HDD: TOSHIBA 2"5 SATA MK1676GSX 160GB
7. Test Software: Windows 7 32Bit/ Run PassMark Burn In Test 7.0 Pro
8. AT Power Supply: ZIPPY HG2-6400P
9. Product picture:



# Temp./humidity power on/off test

**Test Date:** 01-07 ~ 08-2013

**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to IEC 68-2-30 Testing procedures  
Test Db: Damp Heat Test

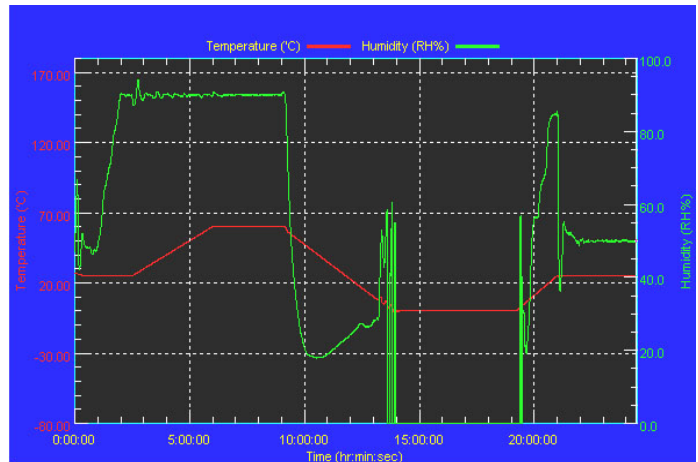
**Test Equipment:**  
 Programmable Temperature & Humidity Chamber  
 K.SON. INS. TECH. CORP.  
 Model: THS-B6T-150+LN2  
 Date of Calibration: 10/12/12  
 Serial Number: 6487KT

## Temperature & Humidity Power On/Off Test:

### Testing Specification:

Step	Temperature (°C)	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
3	25	90	01:00
4	25	90	00:30
5	60	90	03:30
6	60	90	03:00
7	0	0	04:50
8	0	0	05:23
9	25	50	01:47
10	25	50	03:00

### Test Curve:



## Test Result:

Test Method	Actual	Successful	Failure rate
Power On/Off	1358/times	1358/times	0.0 %

Note: Failure rate must be under 0.2%.

# Temperature variation operation test

**Test Date:** 01-04~07 -2013

**Test Site:** AAEON QE Dept.

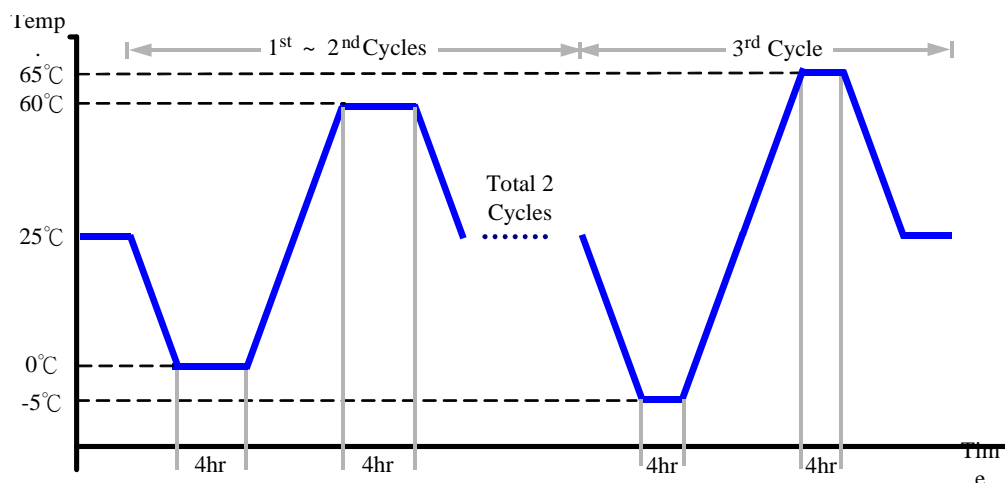
**Test Standard:** Refer to IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber  
K.SON. INS. TECH. CORP.  
Model: THS-B6T-150+LN2  
Date of Calibration: 10/12/12  
Serial Number: 6487KT

**Temperature & Humidity Cycle Test:**

1. Test Low Temperature: 0°C (1~2 cycles)  
-5°C (3<sup>rd</sup> cycle)
2. Test High Temperature: 60°C (1~2 cycles)  
65°C (3<sup>rd</sup> cycle)
3. Test dwell time: 4Hrs (1~2 cycles)  
4Hrs (3<sup>rd</sup> cycle)
4. Temperature slope: 2°C/min
5. Test cycle: 3 cycles
6. Test Environment Curve:



**Test Result:**

No issues were found during the temperature variation operation test.

# Cold start and hot start test

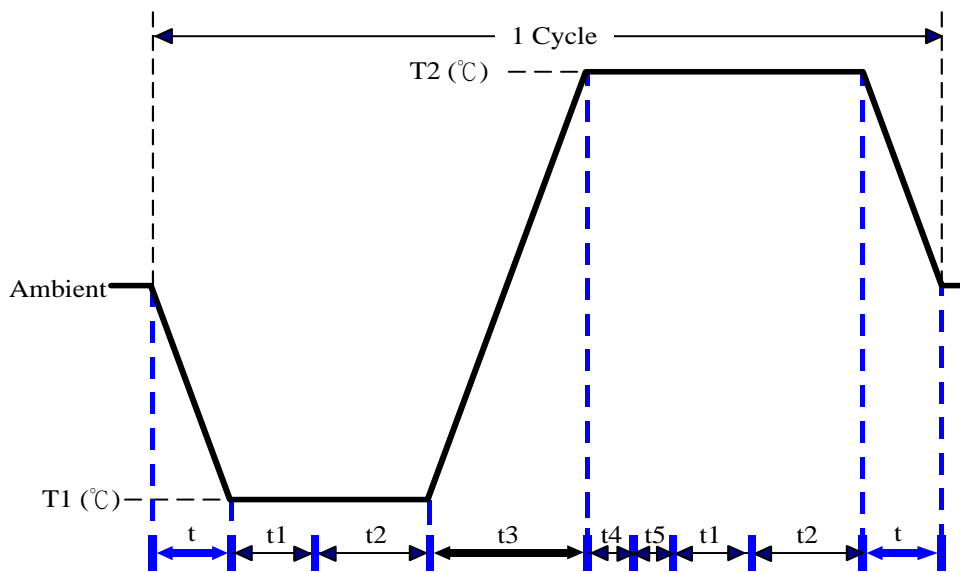
**Test Date:** 01-03 ~04-2013

**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**  
 Programmable Temperature & Humidity Chamber  
 K.SON. INS. TECH. CORP.  
 Model: THS-B6T-150+LN2  
 Date of Calibration: 10/12/12  
 Serial Number: 6487KT

**Test Condition:**



Parameters	Description
T1	-5°C
T2	65°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t,t3 = temprature slope  
 t, t1: Power Off  
 t2: Power on/off test 10 times (on 2 min / off 5min)  
 t3,t4: Run PassMark Burn In Test  
 t5: Windows 7 Software restart test 2 times  
 Test Software:Windows 7

**Test Result:**

- a. No issues were found during the cold start test.
- b. No issues were found during the hot start test.