# EPB-CV101

**Intel D2550 CPU**

# Temperature/Humidity Test Report

**Report NO: 14E020003**

| | |
|---|---|
| Summary | ☑ **Pass**<br>☐ **Fail**<br>Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website.<br>☐ **Pass with Deviation**<br>**Comment: _____** |

| Issue date | Approval | Test Engineer |
|---|---|---|
| **2014-03-20** | **Tom Lin** | **Jerry Chen** |

# Test item list



## 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 | |



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# Configuration of EUT

## Test Product: EPB-CV101 A0.3

**Sample Configuration & Quantity Under Test:**

1. CPU: Intel Atom CPU D2550 1.86GHz
2. BIOS Ver. EPB-CV101 R0.8(BCV1AM08)
3. Chipset: PCH Bridge (Intel NM10)
4. Memory: DDR3 800 MHz 2GB On Board / SEC 334 BYKO K4B2G0846Q
5. USB Flash: Transcend 4GB (For DOS Mode Power On/Off Test)
6. 2.5” SATA HDD: TOSHIBA MK1060GSC 2.5 / 100GB
7. Test Software: Windows 7 / Run PassMark Burn In Test 7.1Pro
8. DC Adapter: FSP084-DMAA1/ DC 12V/ 7.0A
9. Heat Sink:



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# Temp./humidity power on/off test

**Test Date:** 03-13 ~ 14-2014

**Test Site:** AAEON QE Dept.

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

**Test Equipment:**

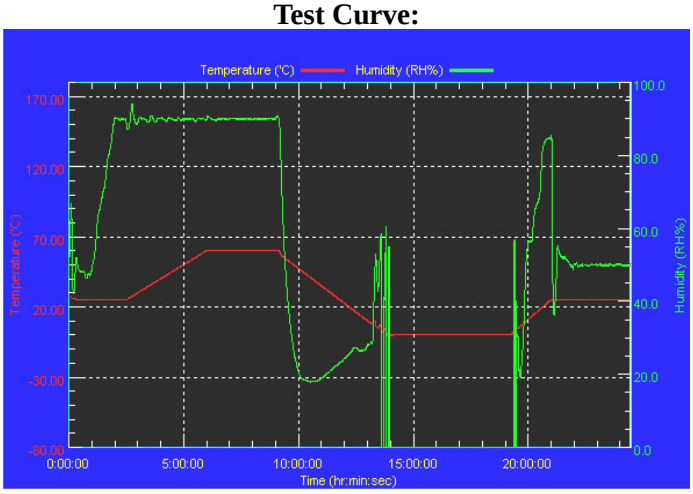
Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 2013/06/11
Serial Number: 9095KT

**Temperature & Humidity Power On/Off Test:**

**Testing Specification:**

| Step | Temperature (℃) | 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 | 1967/times | 1967/times | 0 % |
| Note: Failure rate need to under 0%. | | | |



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# Temperature variation operation test

**Test Date:** 03-14 ~ 17-2014

**Test Site:** AAEON QE Dept.

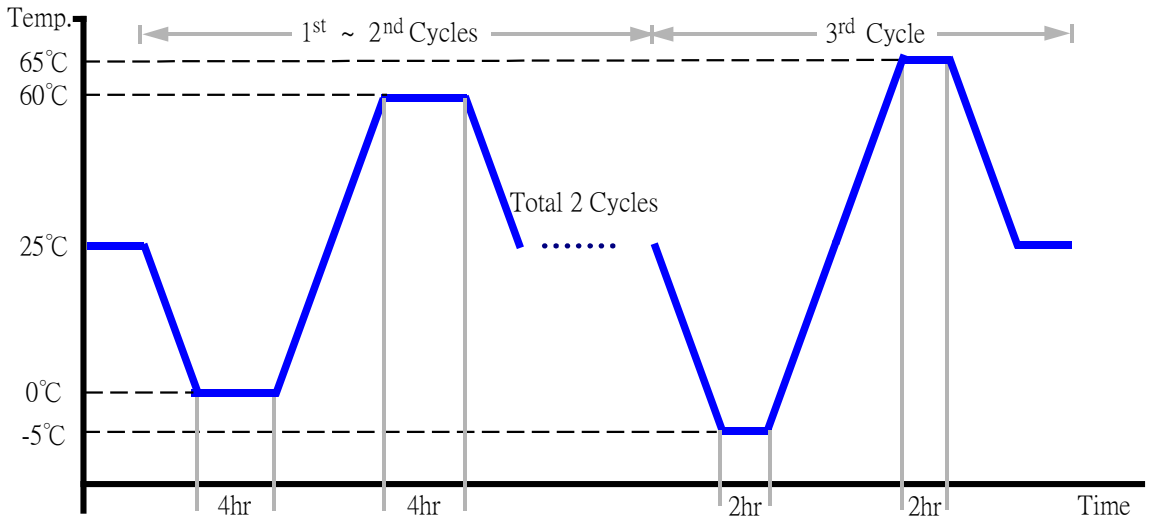
**Test Standard:** Refer to IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 2013/06/11
Serial Number: 9095KT

**Temperature & Humidity Cycle Test:**

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




**Test Result:**

No issues were found during the temperature variation operation test.



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# Cold start and hot start test

**Test Date:** 03-17 ~ 18-2014

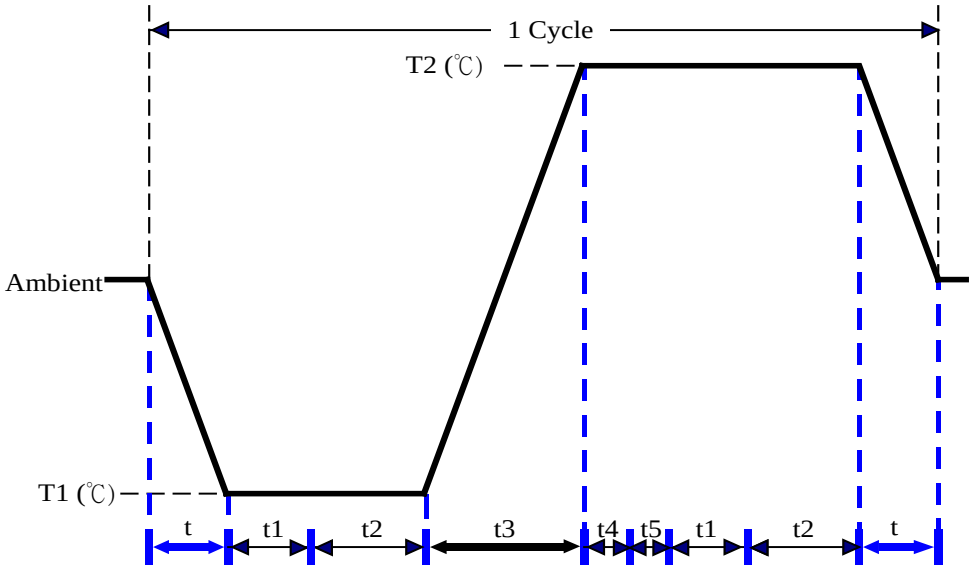
**Test Site:** AAEON QE Dept.

**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: 2013/06/11
Serial Number: 9095KT

**Test Condition:**




| Parameters | Description |
|---|---|
| T1 | -5℃ |
| T2 | 65℃ |
| t1 | 1 hrs |
| t2 | 2 hrs |
| t4, t5 | 30 min |
| t, t3 | 2℃/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.



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