# EMB-9459T

## Temperature/Humidity Test Report

**Report NO: 10E020002**

| | | | |
|---|---|---|---|
| **Issued by:** | Rex Chang | / | *01/20/2010* |
| | **Test Engineer** | | **Date** |
| **Reviewed by:** | Wenyuan Yang | / | *01/20/2010* |
| | **Manager** | | **Date** |

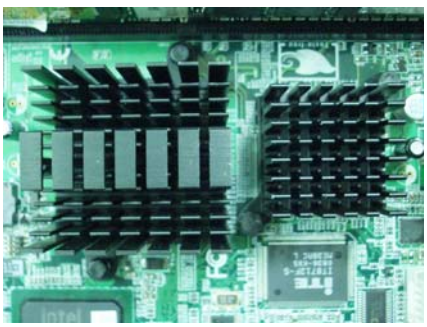
# Test item list



## Test Product: EMB-9459T A2.0

**Sample Configuration & Quantity Under Test:**

1. CPU: Intel Atom N270 /1. 6GHz (Bios Ver. EMB-9459T-B 1.0)
2. Chipset: Intel 945GSE / ICH7M
3. VGA: Intel 945GSE
4. Memory: Kingston 512MB / HYB18T512 (DDR2-553)
5. CFD: PQI 32MB
6. HDD: Western Digital WD800BB / 80GB
7. Test Software: Windows XP / Run PassMark Burn In Test 4.0 Pro
8. AT Power Supply: Zippy SP2-4300F
9. Heat Sink:



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# Temp./humidity power on/off test

**Test Date:** 01-16~17-2010

**Test Site:** AAEON QA Internal Lab.

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

**Test Equipment:**

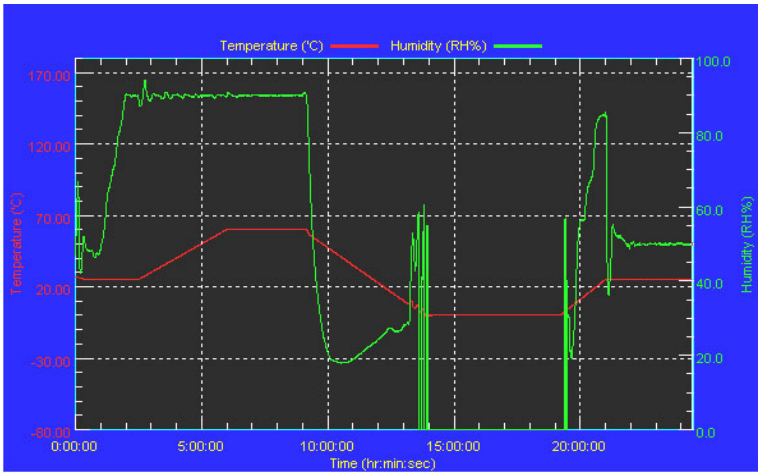
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

**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:**

No problem was found during the temperature & humidity power on/off test.



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# Temperature variation operation test

**Test Date:** 01-15~16-2010

**Test Site:** AAEON QA Internal Lab.

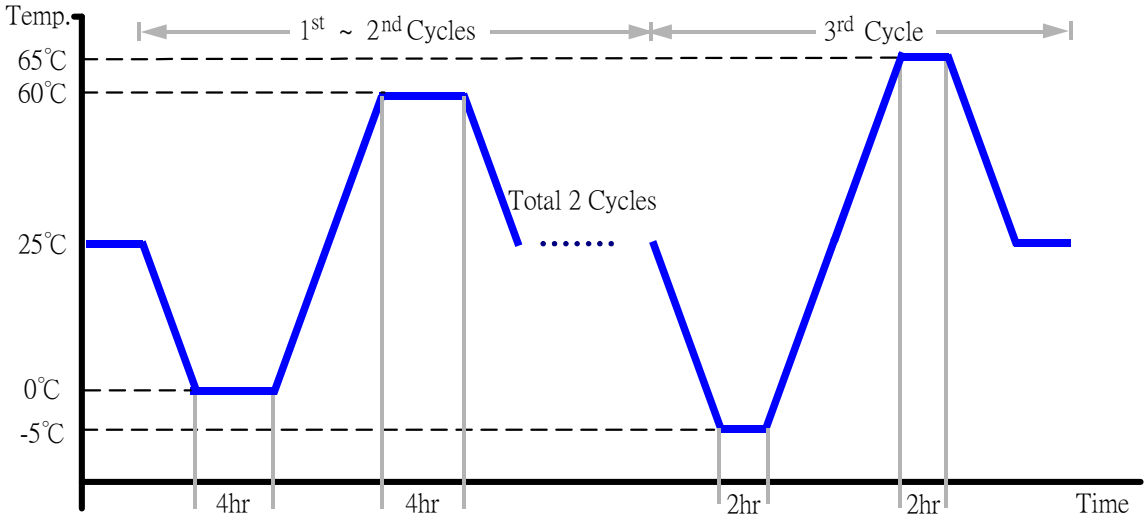
**Test Standard:** Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

**Temperature & Humidity Cycle Test:**

1. Test Low Temperature: 0℃ (1~2 cycles)
   -5℃ (3rd cycle)
2. Test High Temperature: 60℃ (1~3 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 problem was found during the temperature variation operation test.



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# Cold start and hot start test

**Test Date:** 01-18-2010

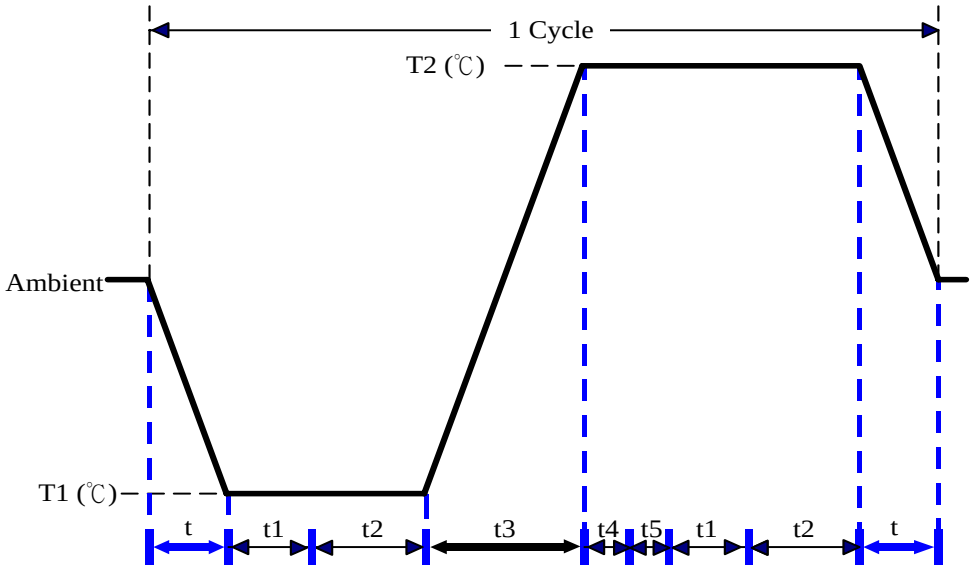
**Test Site:** AAEON QA Internal Lab.

**Test Standard:** Reference 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-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

**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: Win XP Software restart test 2 times
Test Software:Windows XP

**Test Result:**

a. No problem was found during the cold start test.

b. No problem was found during the hot start test.



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