EMB-BT4

INTEL Bay Trail-D J1900 1.99G CPU

Temperature/Humidity Test Report

Report NO: 15IP020003

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

Issue date	Approval	Test Engineer
2015-01-23	**KJ**	**Ben Sun**

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: EMB-BT4 REV. A1.0

Sample Configuration & Quantity Under Test:

1. CPU: INTEL Bay Trail-D J1900 1.99G
2. BIOS Ver.: EMB-BT4 R1.00(EBT4DM10)
3. Chipset: N/A
4. Memory: Innodisk DDR3-1333 8GB *1
5. USB Flash: Transcend 4GB (For DOS Mode Power On/Off Test)
6. 2.5” SATA HDD: WD500BPKX 500GB
7. Test Software: Windows 7 / Run PassMark Burn In Test 7.1 Pro
8. AT Power Supply
9. CPU Cooler:

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Temp./humidity power on/off test

Test Date: 11-03 ~ 11-04-2014

Test Site: AAEON QE Dept.

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

Test Equipment:

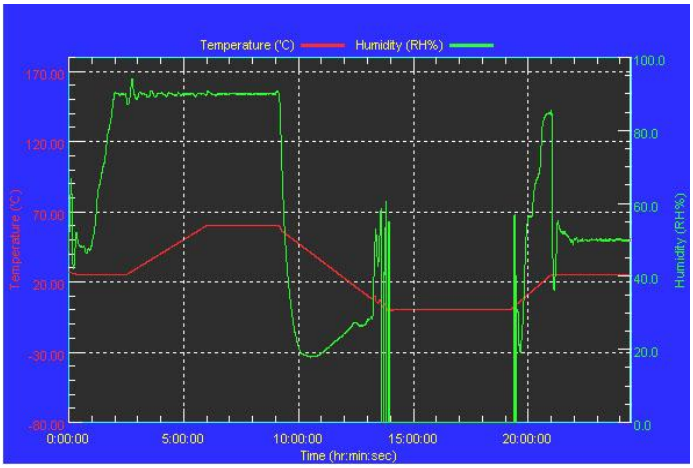
Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 09/01/14
Serial Number: 9095KT

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	1051/times	1051/times	0 %
Note: Failure rate need to be 0%.			

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Temperature variation operation test

Test Date: 10-31 ~ 11-01 - 2014

Test Site: AAEON QE Dept.

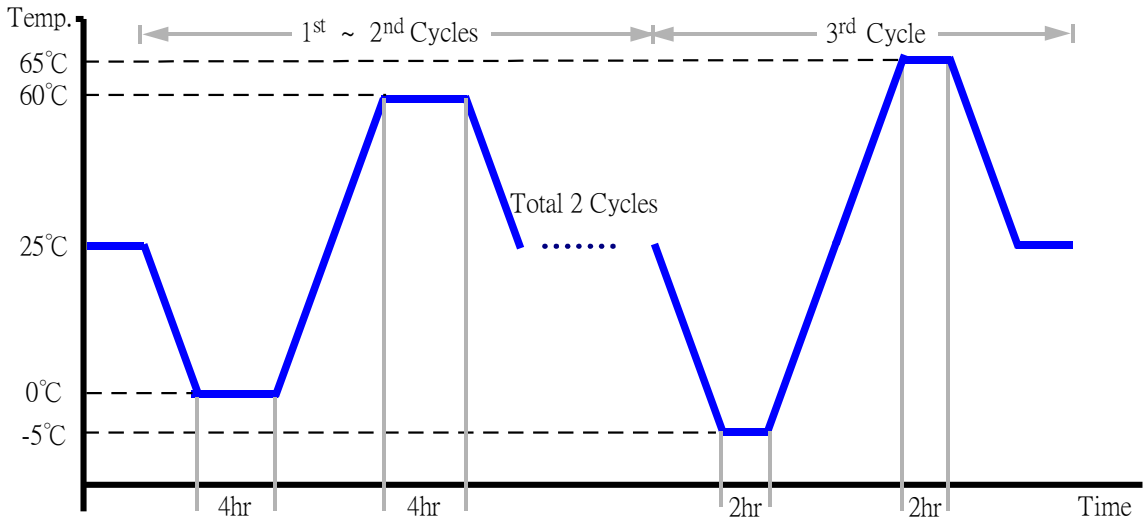
Test Standard: Refer to IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 09/01/14
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: 11-05 ~ 06-2014

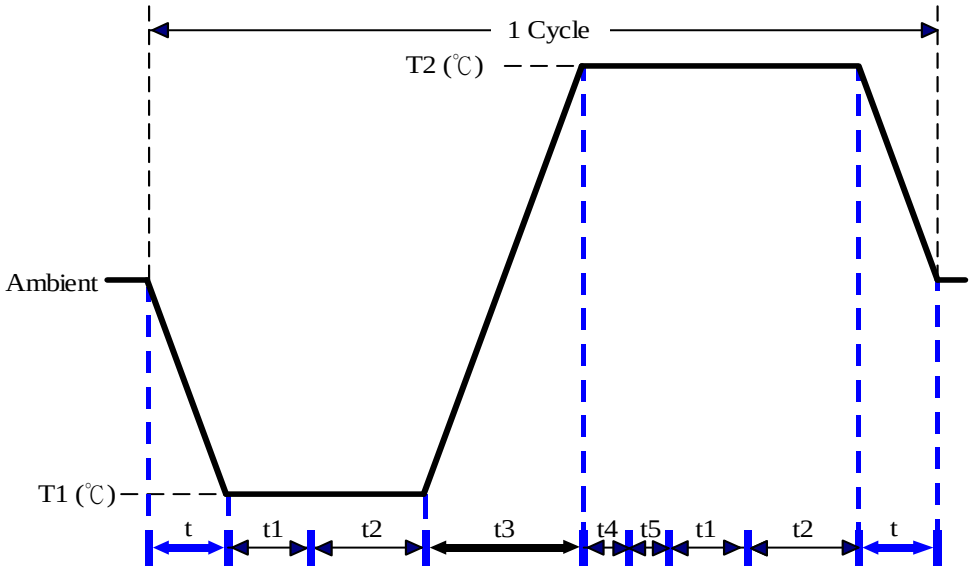
Test Site: AAEON QE Dept.

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: 09/01/14
Serial Number: 9095KT

Test Condition:



Parameters	Description
T1	-5℃
T2	6 5℃
t1	1 h r s
t2	2 h r s
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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