

PBA-BT02

PCB Rev. A0.2

Temperature/Humidity Test Report

Report NO:

Summary	<p><input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail</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"/> Pass with Deviation</p>
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Issue date

2015-03-10

Approval

Kerwin Liu

Test Engineer

Lena Cho

Test item list

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Testing Result

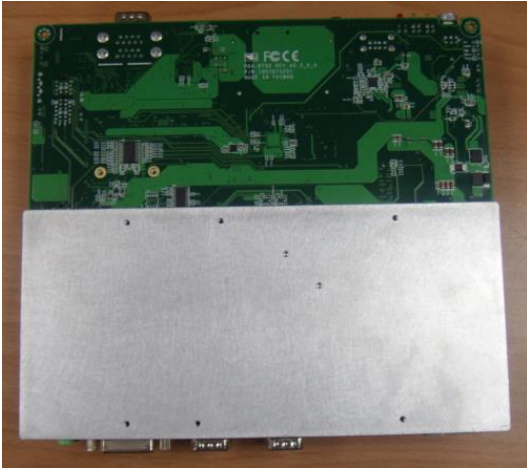
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	N/A
2	Temperature variation operation test	Pass	N/A
3	Cold start and hot start test	Pass	N/A

Configuration of EUT

Test Product: PBA-BT02 A0.2

Sample Configuration & Quantity Under Test:

1. **SOC:** Intel® Atom™ Processor E3845 (2M Cache, 1.91 GHz)
2. **VGA:** Bay Trail - I integrated, GFX @542MHz
3. **Memory:** Transcend 8G DDR3L 1600 SODIMM / K4B4G0846B
4. **BIOS Reversion:** RBT2AM06.BIN
5. **USB flash:** SanDisk cruzer / 4GB (for Power On/Off test)
6. **SATA HDD:** Crucial m4 SSD 64Gb/S
7. Test Software: Windows 8.1 x64 / Run PassMark BurnInTest Pro v8.0 build 1019
8. Power Supply: HG2-6400P (AT-Mode)
9. Passive Heatsink:



Temp./humidity power on/off test

Test Date: 2015-03-04~03-05

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2014/03/17

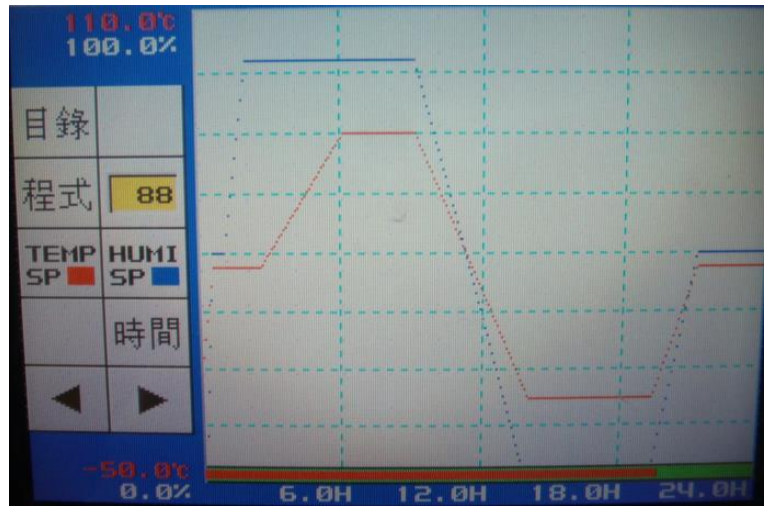
Serial Number: 961138

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	70	90	03:30
6	70	90	03:00
7	-20	0	04:50
8	-20	0	05:23
9	25	50	01:47
10	25	50	03:00

Test Curve:



Test Result:

No issues were found during the temperature & humidity power on/off test.

Test Method	Actual	Successful	Failure rate
Power On/Off	1880 times	1880 times	0 %
Note: Failure rate need to under 0%.			

Temperature variation operation test

Test Date: 2015-03-06~03-07

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

TERCHY. TECH. CORP.

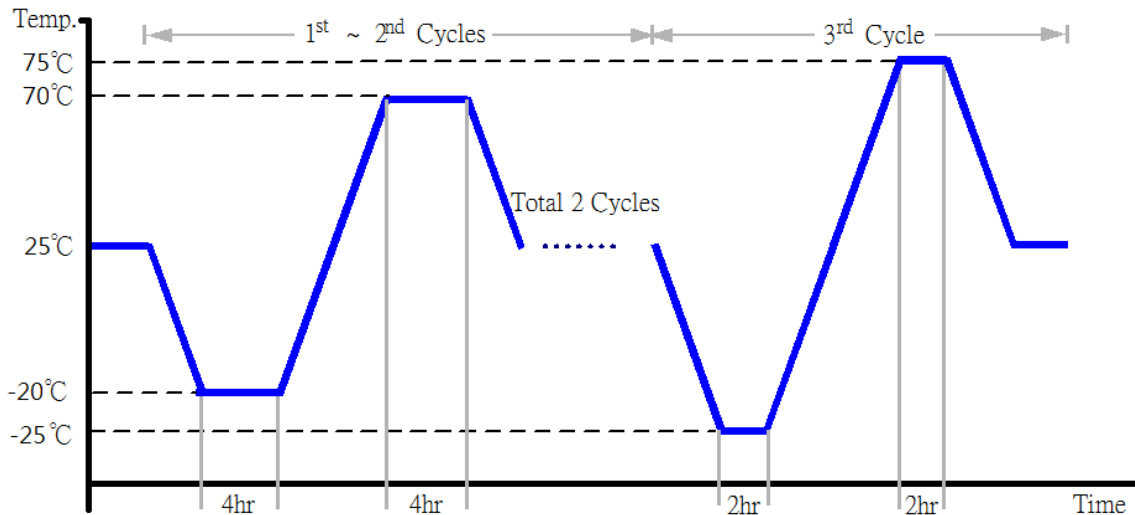
Model: MHU-150LB

Date of Calibration: 2014/03/17

Serial Number: 961138

Temperature & Humidity Cycle Test:

1. Test Low Temperature: **-20°C** (1st~2nd cycles)
-25°C (3rd cycle)
2. Test High Temperature: **70°C** (1st~2nd cycles)
75°C (3rd cycle)
3. Test dwell time: **4Hrs** (1st~2nd cycles)
2Hrs (3rd 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: 2015-03-09

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

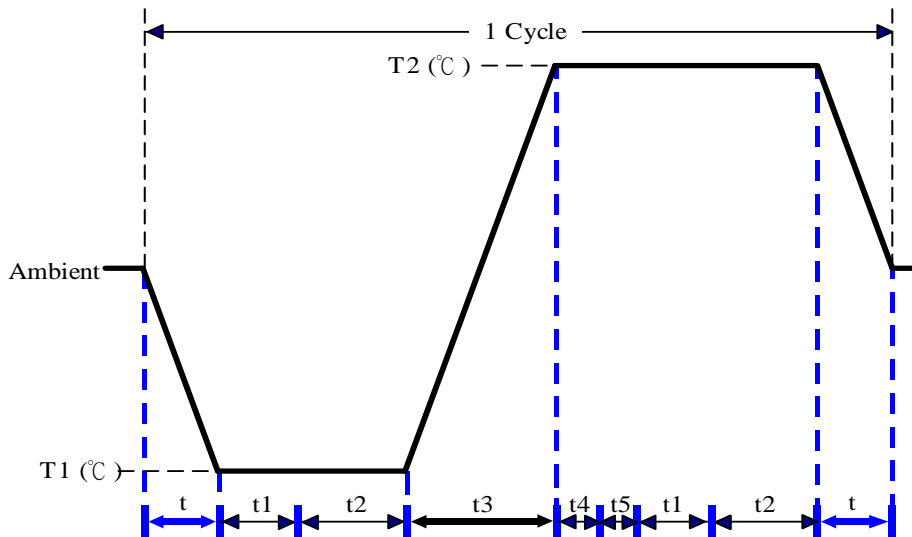
TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2014/03/17

Serial Number: 961138

Test Condition:



Parameters	Description
T1	-25°C
T2	75°C
t1	1 hr
t2	2 hrs
t4, t5	30 mins
t, t3	2°C/min
n (Cycle)	1

t, t3: Temperature Slope

t, t1: Power Off

t2: Power On/Off test 10 times (On 2 mins / Off 5 mins)

t5: Windows soft restart test 2 times

Test software: Windows 8 x64 Edition

Test Result:

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