GNEN-BT04

PCB Rev. A0.1_0_0

Temperature/Humidity Test Report

Report NO:

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

Issue date	Approval	Test Engineer
2015-4-17	**Richard Wu**	**Hans Hong**

Test item list

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

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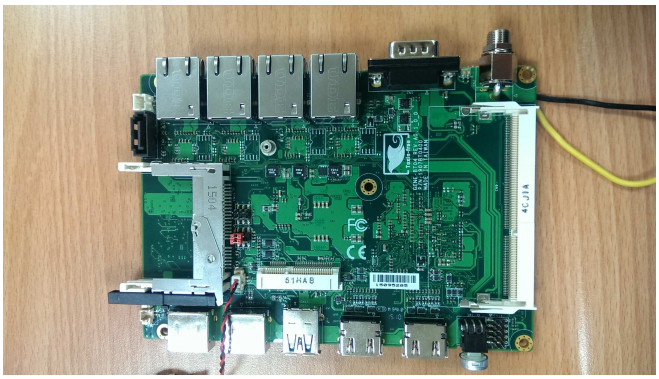
Configuration of EUT

Test Product: GENE-BT04 A0.1

Sample Configuration & Quantity Under Test:

1. CPU: Intel Bay Trail Quad core J1900 SOC processor 2.0GHz
2. VGA: Intel HD Graphics
3. DDR: SO-DIMM DDR3L 4GB samsung.K4B4G0846B-XYK0
4. BIOS Rev. : R0.2 (GBT4BM02)
5. SATA HDD: HITACHI Z5K320-160 (160G)
6. Power Supply: ZIPPY EMACS HG2-6400P 400W
7. Test Software: Win 7 X64/ PassMark BurnInTest Pro v8.0
8. Heat-sink: A0.1 Engineer Sample
9. Ethernet :Intel LAN i211AT x4, Gigabit Ethernet, RJ-45 x 4



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Temp./humidity power on/off test

Test Date: 2015-07-02~07-03

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

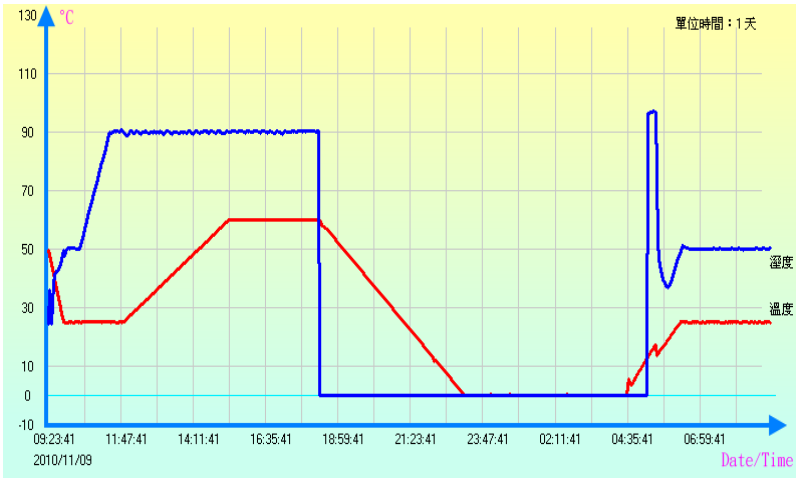
Programmable Temperature & Humidity Chamber
TERCHY. TECH. CORP.
Model: MHU-150L
Date of Calibration: 2015/03/16
Serial Number: 961138

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 issues were found during the temperature & humidity power on/off test.

Test Method	Actual	Successful	Failure rate
Power On/Off	1446/ **times**	1446/ **times**	**0 %**
Note: Failure rate need to under 0.0%.			

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Temperature variation operation test

Test Date: 2015-06-30~07-01

Test Site: AAEON Taichung Internal Lab

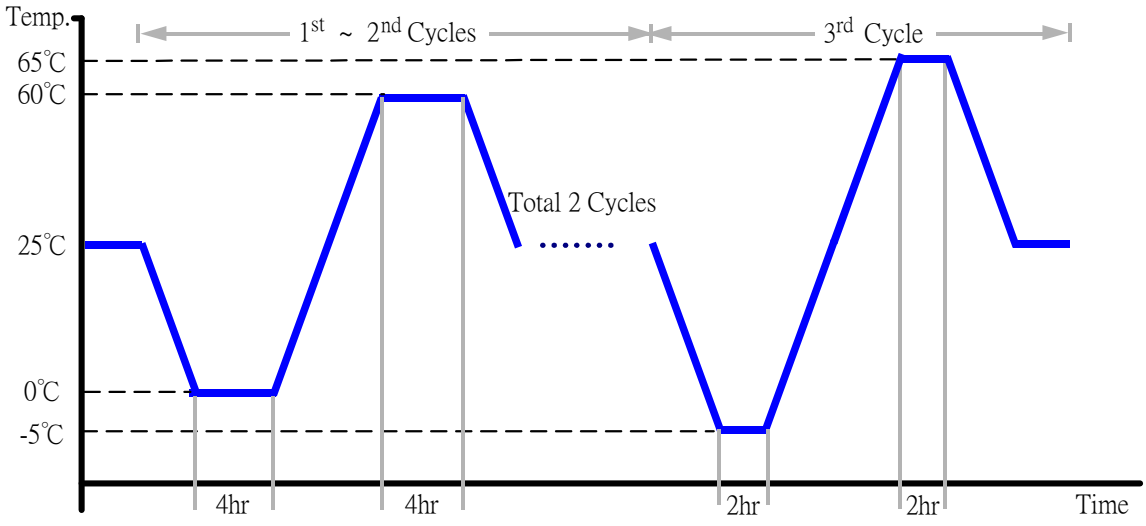
Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
TERCHY. TECH. CORP.
Model: MHU-150L
Date of Calibration: 2015/03/16
Serial Number: 961138

Temperature & Humidity Cycle Test:

1. Test Low Temperature: **0℃** (1st~2nd cycles)
   -5℃ (3rd cycle)
2. Test High Temperature: **60℃** (1st~2nd cycles)
   65℃ (3rd cycle)
3. Test dwell time: **4Hrs** (1st~2nd 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: 2015-07-06~07-07

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

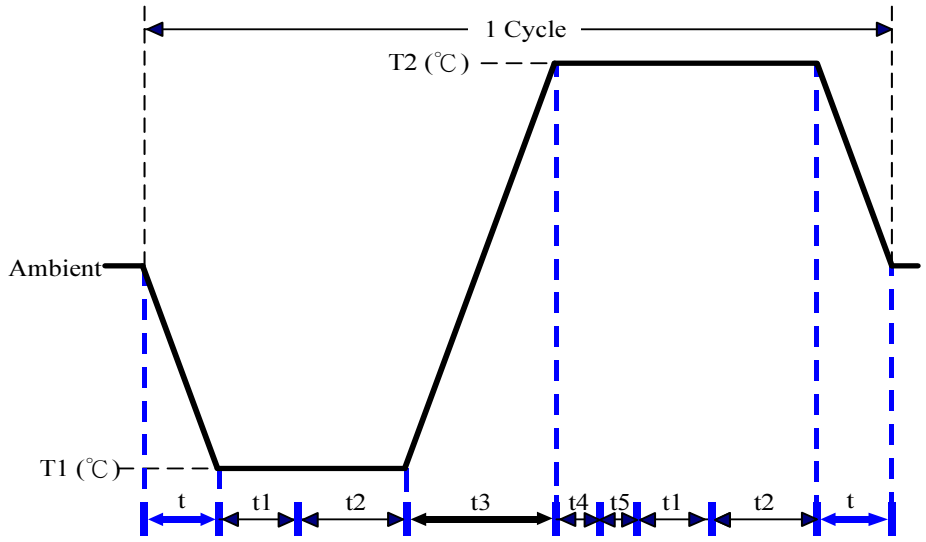
TERCHY. TECH. CORP.

Model: MHU-150L

Date of Calibration: 2015/03/16

Serial Number: 961138

Test Condition:



Parameters	Description
T1	-5℃
T2	65℃
t1	1 hr
t2	2 hrs
t4, t5	30 mins
t, t3	2℃/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 8.1

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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