ETX-LN

PCB Rev. A1.1

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
2012-09-19	**Benson Lee**	**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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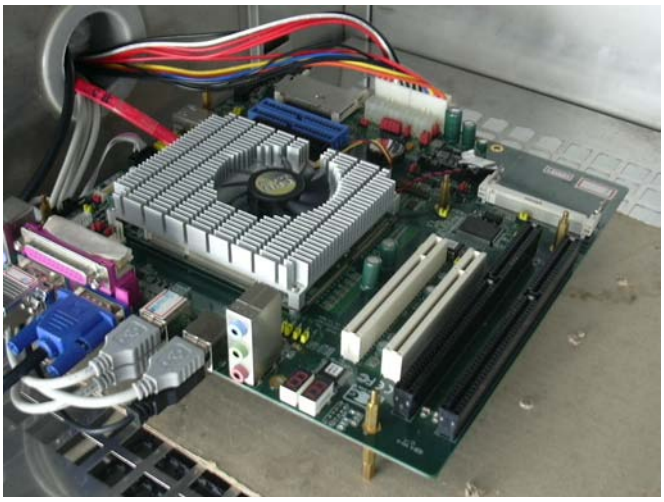
Configuration of EUT

Test Product: ETX-LN A1.1 + ECB-902M A1.0

Sample Configuration & Quantity Under Test:

1. **CPU**: Onboard Intel Atom D525 Processors 1.86GHz
2. **Chipset**: Intel ICH8M
3. **VGA**: Intel D525 processor integrated
4. **Memory**: SODIMM DSL 2GB 1066 (DDR3)
5. **BIOS Reversion**: ETLNAT20 (08/15/2012)
6. **SATA HDD**: STM3160811AS 160GB SATA
7. Test Software: Windows 7 x32 / Run PassMark BurnInTest Pro v7.0 build 1014
8. Power Supply: HG2-6300P (AT-Mode)
9. Cooler:



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Temp./humidity power on/off test

Test Date: 2012-09-16~09-17

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

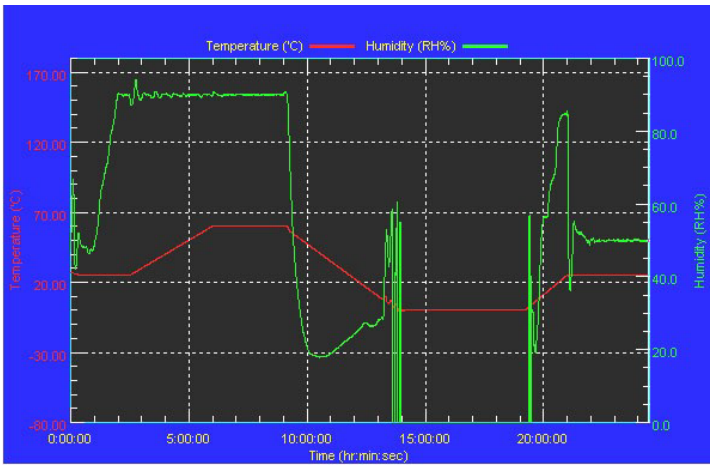
Programmable Temperature & Humidity Chamber
TERCHY. TECH. CORP.
Model: MHU-150LB
Date of Calibration: 2012/03/07
Serial Number: 961138

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 problem was found during the temperature & humidity power on/off test.

Test Method	Actual	Successful	Failure rate
Power On/Off	**1594/ times**	**1594/ times**	**0 %**
Note: Failure rate need to under 0.2%.			

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Temperature variation operation test

Test Date: 2012-09-13~09-14

Test Site: AAEON Taichung Internal Lab

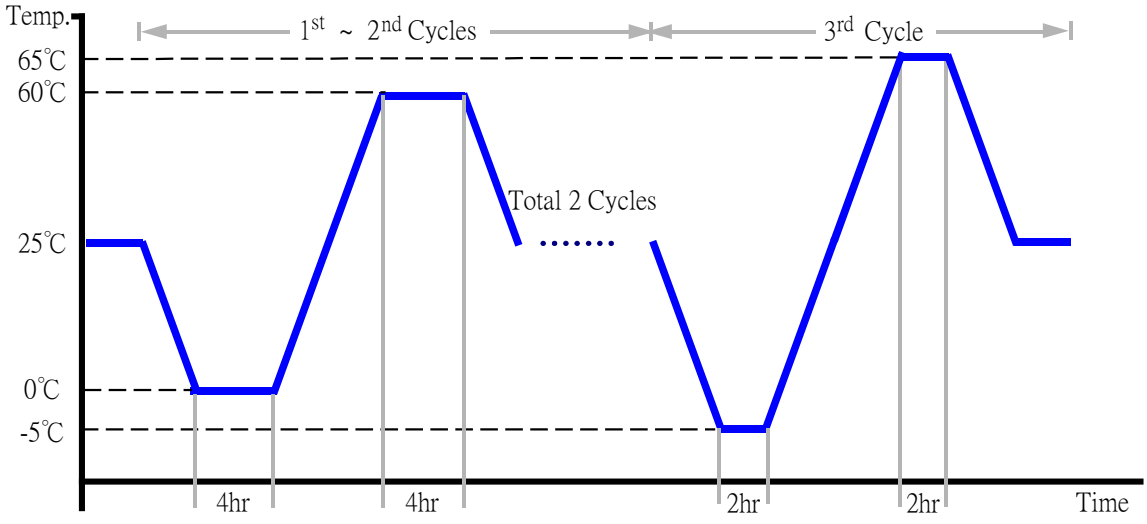
Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
TERCHY. TECH. CORP.
Model: MHU-150LB
Date of Calibration: 2012/03/07
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 problem was found during the temperature variation operation test.

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Cold start and hot start test

Test Date: **2012-09-14**

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

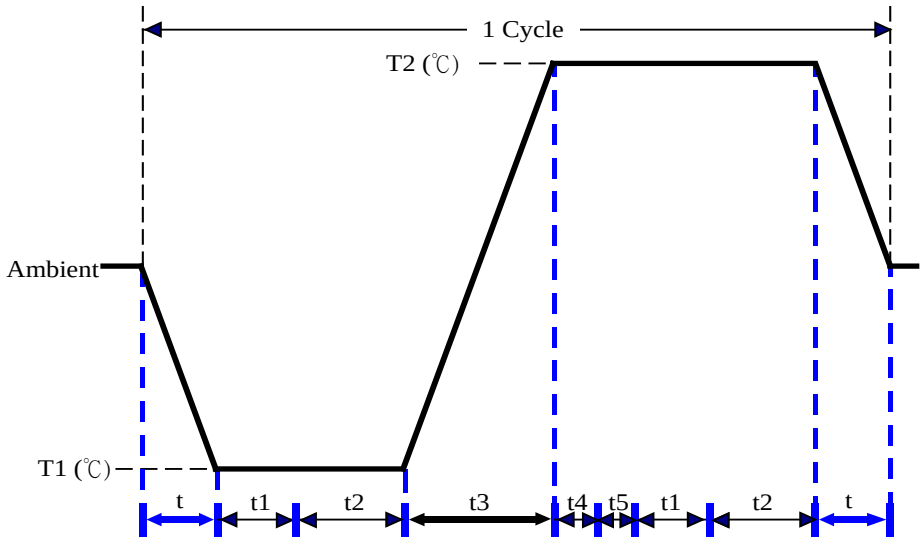
TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2012/03/07

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 7 Ultimate x32 Edition

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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