

ECB-970

PCB Rev. A0.2_0_0

Temperature/Humidity Test Report

Report NO:

Summary	<input checked="" type="checkbox"/> pass <input type="checkbox"/> Fail Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website. <input type="checkbox"/> Pass with Deviation Comment:

Issue date

2013-11-27

Approval

Richard Wu

Test Engineer

Hanshong

Test item list

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Testing Result

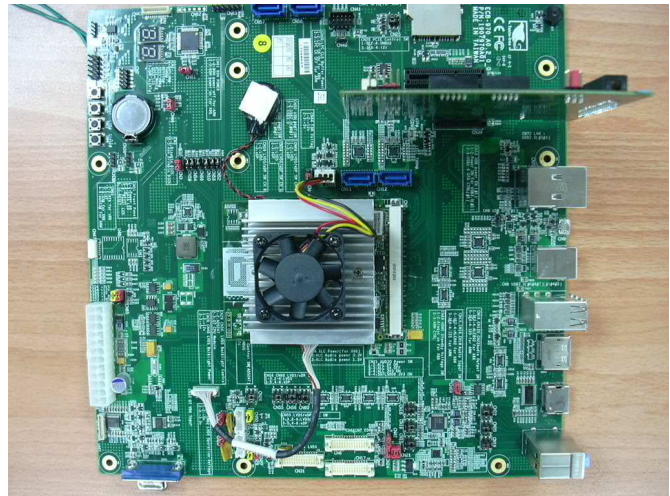
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	

Configuration of EUT

Test Product: ECB-970 A0.2 + AQ7-LN D1.0+PER-T254 A0.2

Sample Configuration & Quantity Under Test:

1. CPU: Intel CPU.Pinetrail M.SINGLE CORE.N455.1.66GHz
2. Chipset: Intel ICH8M
3. VGA: Intel ICH8M
4. Memory: DDR3 667 Memory Chip On Board, Max. 2GB
(SEC231 HCH9 K4B2C0846D)
5. USB: ADATA 16GB (For Power On/Off test)
6. SATA HD: Renic X2 2.5 SATA 32GB SLC
7. Test Software: Windows 7 32Bit / Run PassMark Burn In Test Pro 7.0
8. CPU Board: AQ7-LN D1.0
9. Super IO Card: PER-T254 A0.2
10. Power Supply:藍寶石 350W
- 11.Cooler:



Temp./humidity power on/off test

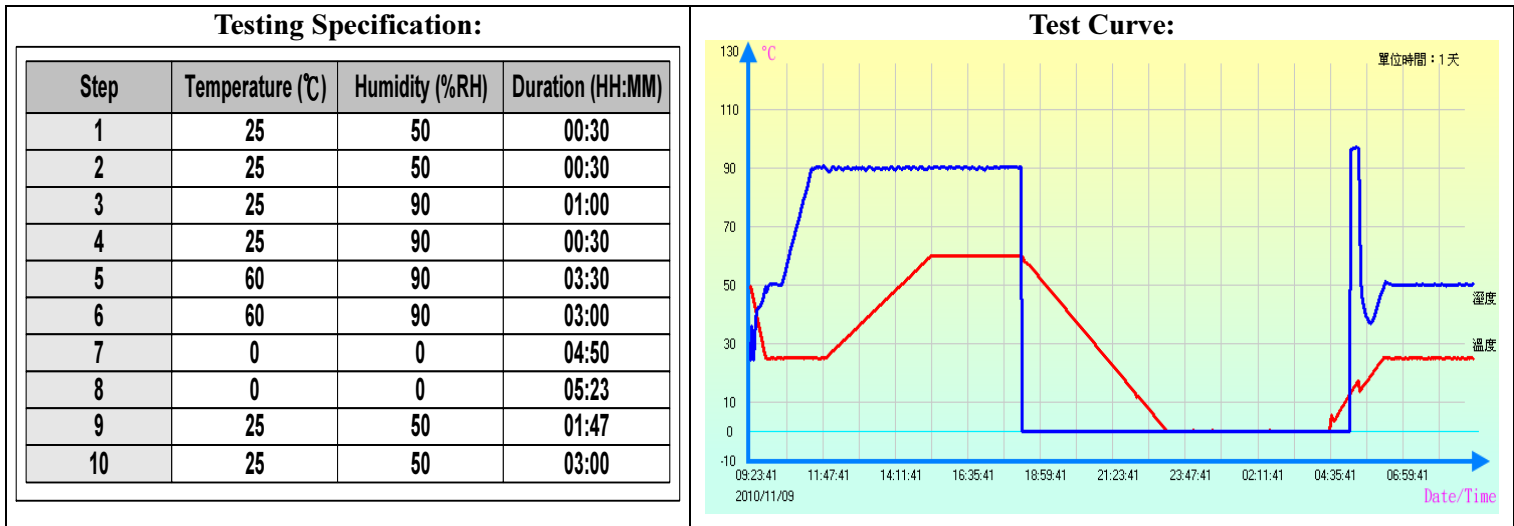
Test Date: 2014/01/15~2014/01/16

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: MHK-225NK
Date of Calibration: 2013/03/08
Serial Number: 1000122

Temperature & Humidity Power On/Off Test:



Test Result:

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

Test Method	Actual	Successful	Failure rate
Power On/Off	1372/ times	1372/ times	0%
Note: Failure rate need to under 0.0%.			

Temperature variation operation test

Test Date: 2014/01/16~2014/01/17

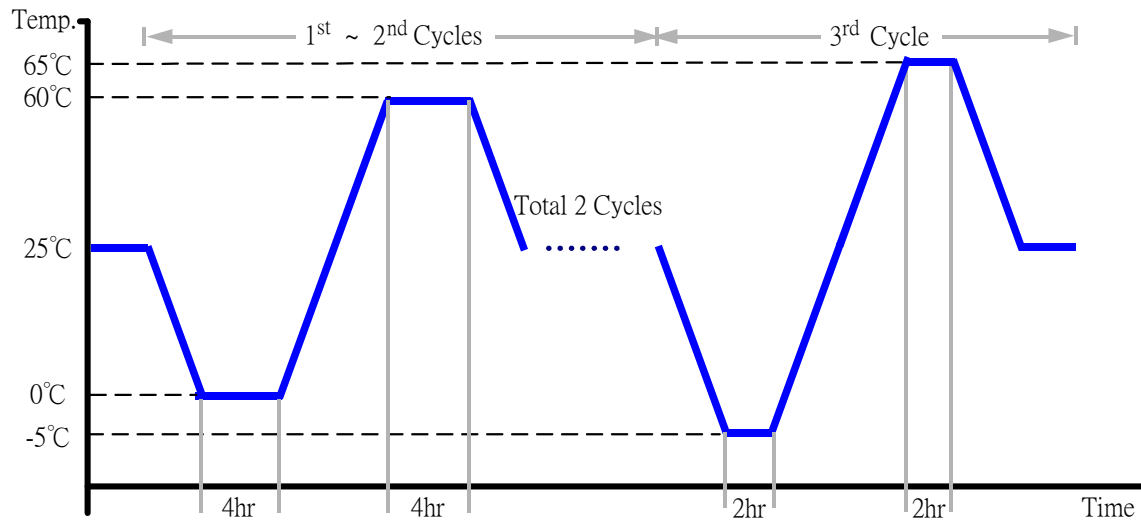
Test Site: AAEON Taichung Internal Lab

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: MHK-225NK
Date of Calibration: 2013/03/08
Serial Number: 1000122

Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0°C (1~2 cycles)
-5°C (3rd cycle)
2. Test High Temperature: 60°C (1~2 cycles)
65°C (3rd cycle)
3. Test dwell time: 4Hrs (1~2 cycles)
2Hrs (3rd cycle)
4. Temperature slope: 2°C/min
5. Test cycle: 3 cycles
6. Test Environment Curve:



Test Result:

No problem was found during the temperature variation operation test.

Cold start and hot start test

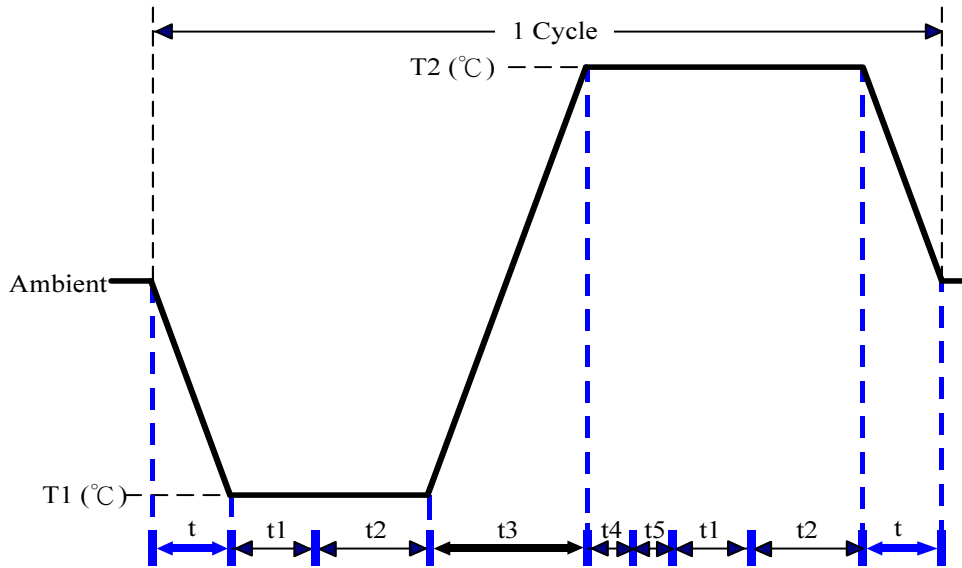
Test Date: 2014/01/20~2014/01/21

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: MHK-225NK
Date of Calibration: 2013/03/08
Serial Number: 1000122

Test Condition:



Parameters	Description
T1	-5°C
T2	65°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2°C/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.