

uCOM-BT

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> <p>Comment:</p>

Issue date

2015-3-28

Approval

Kerwin Liu

Test Engineer

James Yang

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: uCOM-BT A0.2

Sample Configuration & Quantity Under Test:

1. CPU: Intel® Atom™ processors E3845.1.91GHz
2. VGA: Intel HD Graphics
3. DDR: On-board DDR3L 2GB samsung.K4B4G1646D-BYK0
4. BIOS Rev. : A0.B (UCBTAM0B)
5. EC FW Rev. : A0.6 (UCBTAE06)
6. eMMC: .Greenliant.GLS85VM1016A 16GB
7. SATA HDD: Hitachi 2.5" 5400RPM 120GB
8. Power Supply: ZIPPY EMACS HG2-6400P 400W
9. Test Software: Win 8.1 X32/ PassMark BurnInTest Pro v7.0
- 10.Heat-sink: A0.2 Engineer Sample



Temp./humidity power on/off test

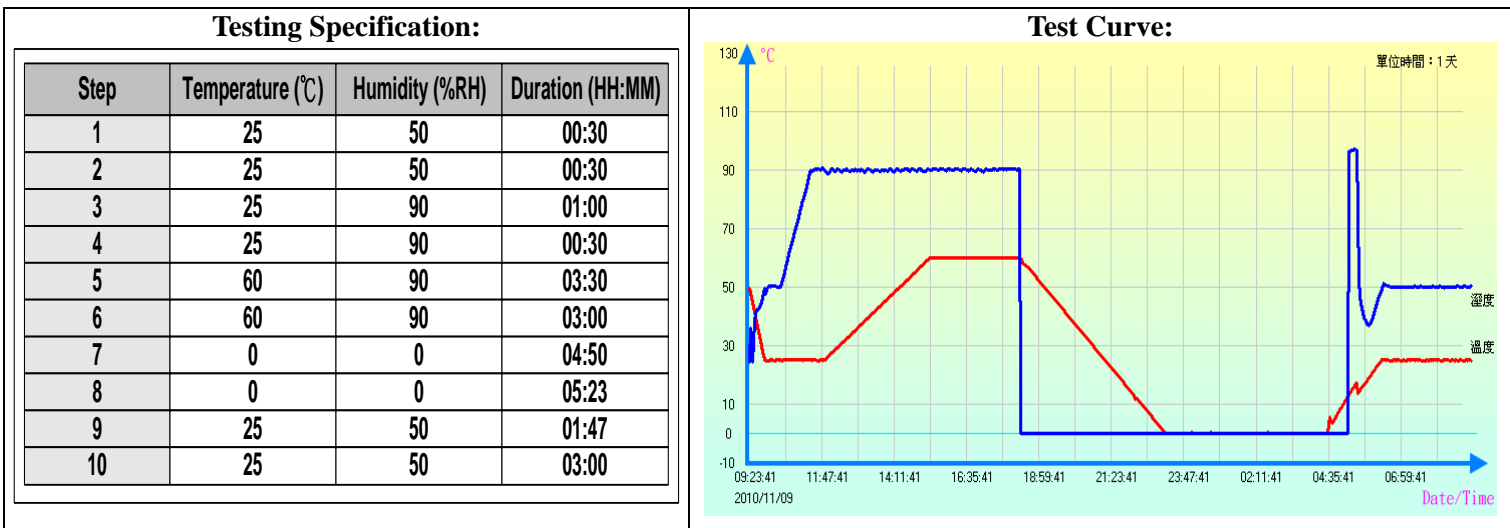
Test Date: 2015/03/16~2015/03/17

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: MHK-225NK
Date of Calibration: 2015/03/16
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	2157	2157	0%
Note: Failure rate need to under 0.0%.			

Temperature variation operation test

Test Date: 2015/03/27~2015/03/28

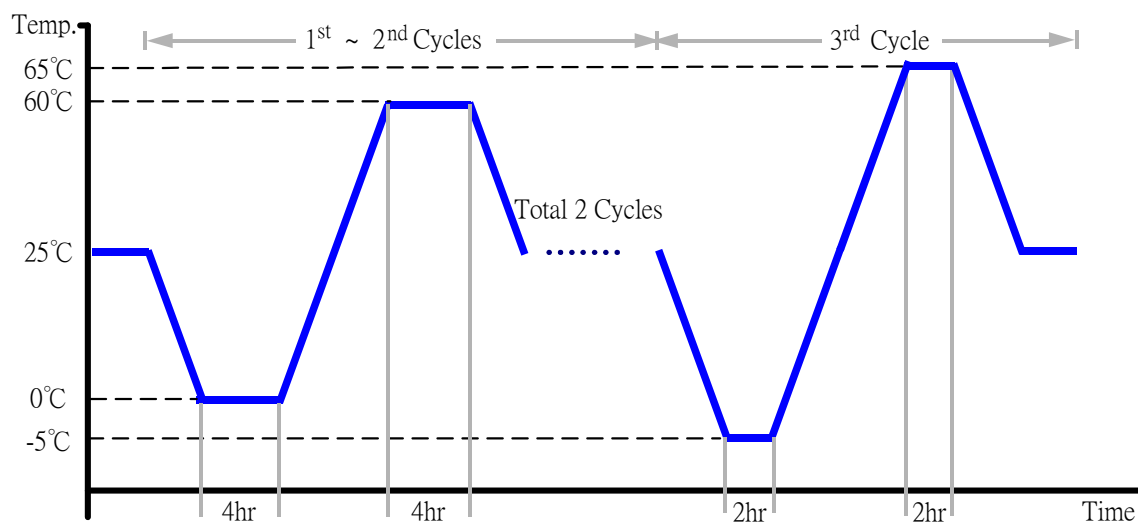
Test Site: AAEON Taichung Internal Lab

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: 2015/03/16
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

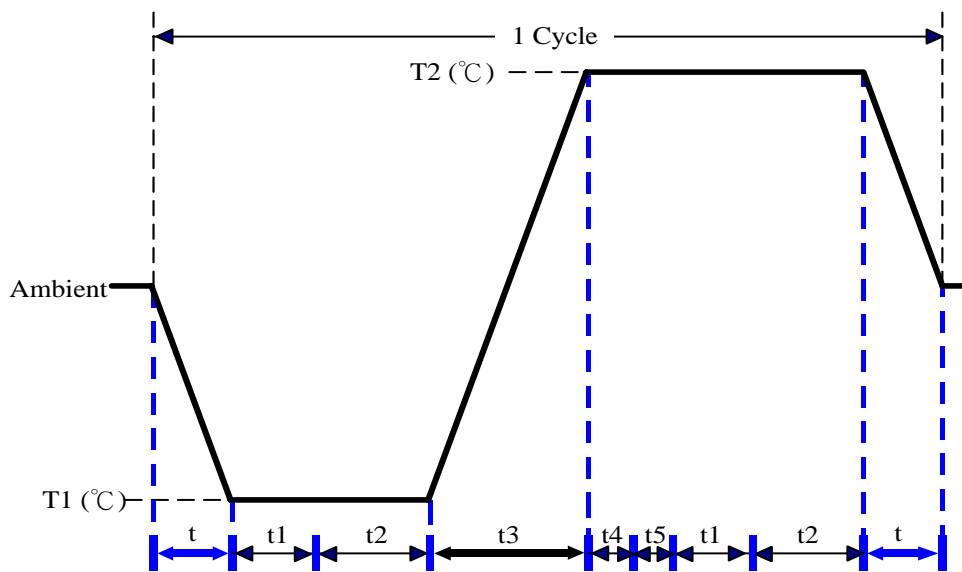
Test Date: 2015/3/27

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: 2015/03/16
Serial Number: 1000122

Test Condition:



Parameters	Description
T1	-5°C
T2	65°C
t1	1 hrs
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 min / off 5 min)

t3,t4 : Run PassMark Burn In Test

t5 : Win 8.1 Software restart 2 times

Test Software: Window 8.1 32bit

Test Result:

- No problem was found during the cold start test.
- No problem was found during the hot start test.