uCOM-BT

PCB Rev. A2.0_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
2016/01/19	**Edwin Luo**	**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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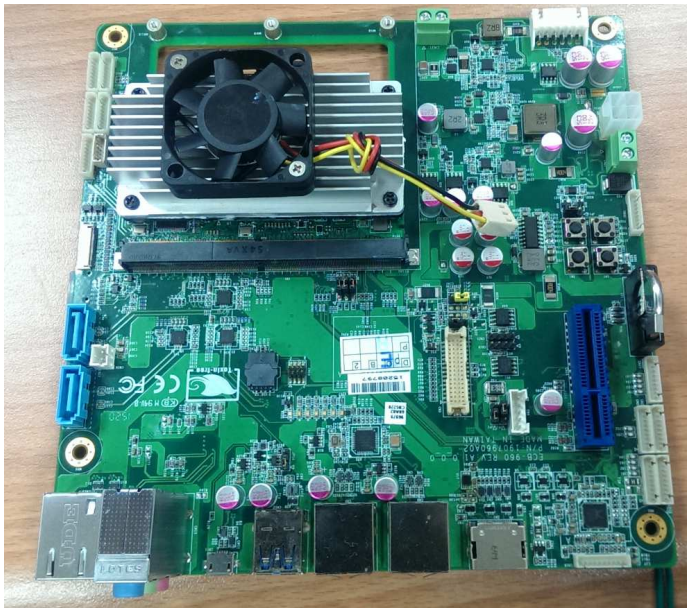
Configuration of EUT

Test Product: uCOM-BT A2.0

Sample Configuration & Quantity Under Test:

1. CPU: Intel® Atom™ processors E3845.1.91GHz
2. VGA: Intel HD Graphics
3. DDR: On-board DDR3L 4GB IM IM8G16D3FBDG-15EI
4. BIOS Rev. : R1.0 (UCBTBM10)
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 x64/ Run PassMark BurnInTest Pro v8.0
10. Heat-sink: Engineer Sample



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Temp./humidity power on/off test

Test Date: 01-11 ~ 15-2016

Test Site: AAEON Taichung Internal Lab

Test Standard: Refer to IEC 68-2-30 Testing procedures
Test Db: Damp Heat Test
Refer to IEC 68-2-1 Testing procedures
Test Ad: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber

TERCHY. TECH. CORP.

Model: MHU-150L

Date of Calibration: 03/16/2015

Serial Number: 961138

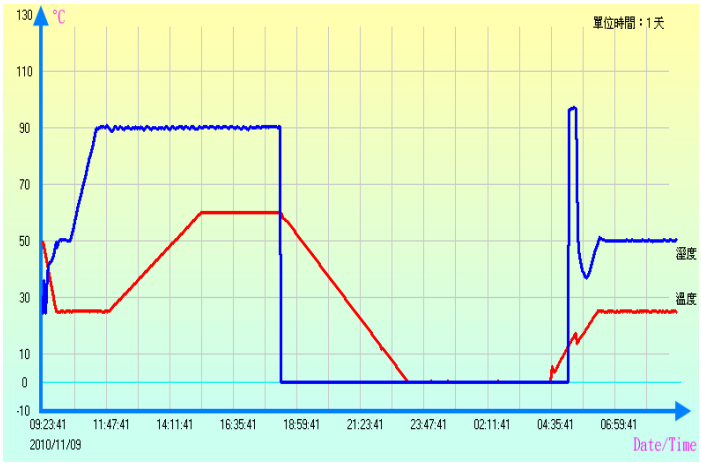
Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60℃@90%RH
2. Test Low Temperature: 0℃
3. Test Time: 24Hours / Cycle
4. Test Cycle: 1 Cycles
5. Test Software: DOS Mode / Run Boot Up Record Program ver 1.41

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:

	Actual	Successful	Failure rate	Test Result
Power On/Off	1682/ **times**	1682/ **times**	0 %	

Note: 1. Failure rate need to under 0%.

2. Power on/off fixture setting: on - 35 sec / off - 5 sec

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Temperature variation operation test

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

Test Site: AAEON Taichung Internal Lab

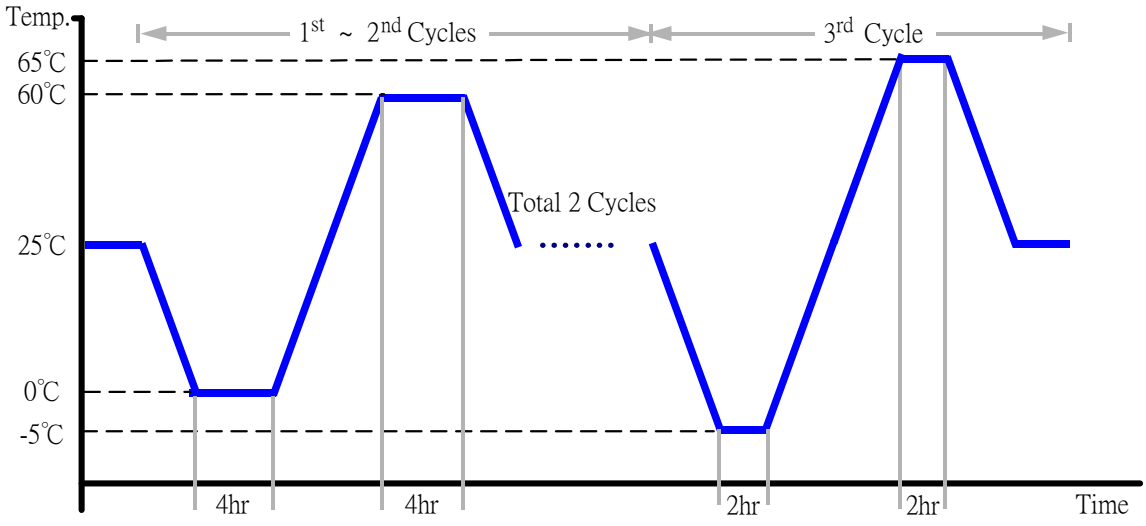
Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

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

Temperature & Humidity Cycle Test:

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

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

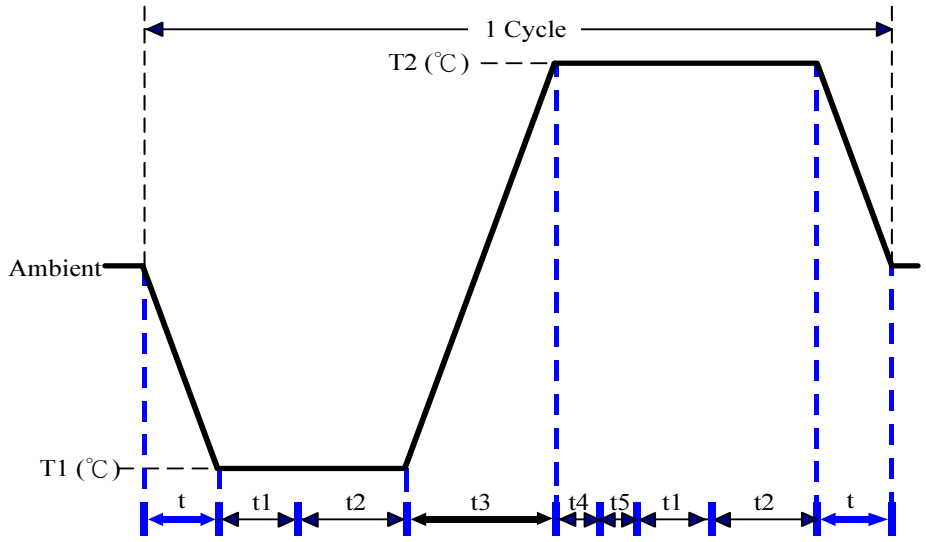
TERCHY. TECH. CORP.

Model: MHU-150L

Date of Calibration: 03/16/2015

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)
t3,t4: Run PassMark Burn In Test
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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