

# NANOCOM-BT

## Temperature/Humidity Test Report

Report NO: 14E020009

Summary	<p><input type="checkbox"/> Pass</p> <p><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 checked="" type="checkbox"/> Pass with Deviation</p> <p><b>Comment:</b> <u>According to the original ITE to description of file, the serial port of transmission may occur: [Serial Communications Hardware Concepts and Hardware Overrun Errors].</u></p>
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Issue date

Approval

Test Engineer

2014-10-09

Tom Lin

Jerry Chen

# 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: NANOCOM-BT Ver. A0.2

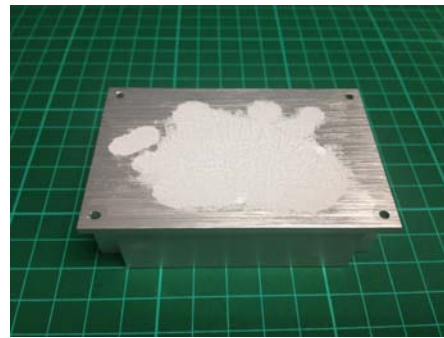
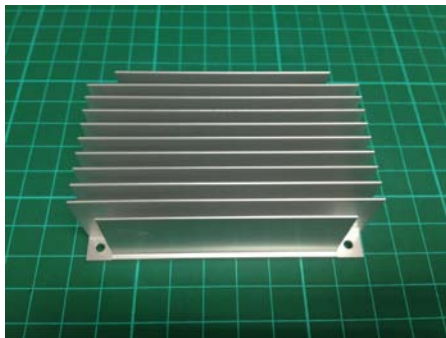
### Sample Configuration & Quantity Under Test:

1. **CPU:** Intel Atom E3845 1.91GHz
2. **BIOS Ver.:** NANOCOM-BT R0.7 (NCBTAM07) (08/11/2014) x64
3. **Memory-On board:** PROMOS / DDR3L 800MHz. 256Mx16(bit) / (V73CBG04168RAJJ11I)
4. **USB Flash:** Transcend 2GB (For DOS Mode Power On/Off Test)
5. **2.5" SATA HDD:** Toshiba / MK1676GSX 160GB
6. **Test Software:** Windows 8 / Run PassMark Burn In Test 7.1Pro
7. **ATX Power Supply:** CWT / SDA400P-C
8. **Heat Sink / Heat-Spreader:**

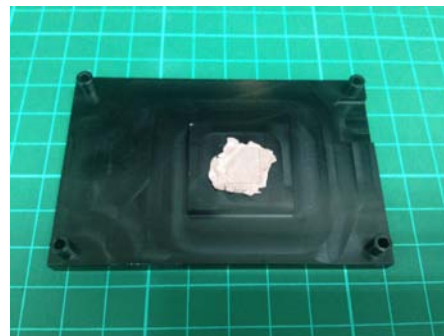
#### Board



#### Heat sink(P/N: M16NACV010)



#### Heat-Spreader (P/N: M16NABT000) and Thermal Pad



# Temp./humidity power on/off test

**Test Date:** 10-02 ~ 03-2014

**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to IEC 68-2-30 Testing procedures  
Test Db: Damp Heat Test

**Test Equipment:**

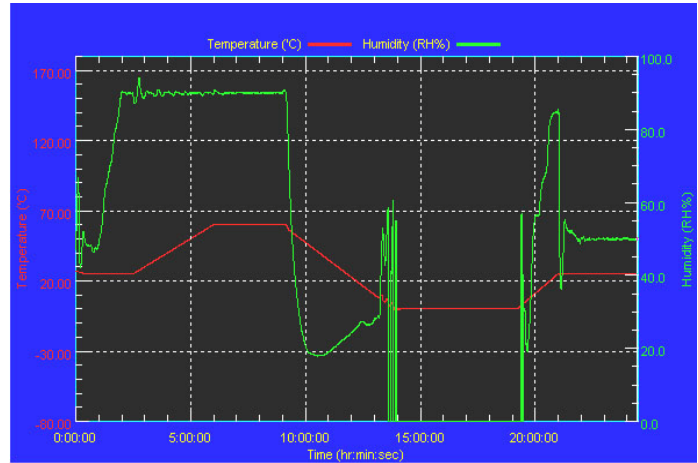
Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/'14  
Serial Number: A0004

**Temperature & Humidity Power On/Off Test:**

**Testing Specification:**

Step	Temperature (°C)	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:**

Test Method	Actual	Successful	Failure rate
Power On/Off	1110/times	1110/times	0 %

Note: Failure rate need to under 0%.

# Temperature variation operation test

**Test Date:** 10-03 ~ 06-2014

**Test Site:** AAEON QE Dept.

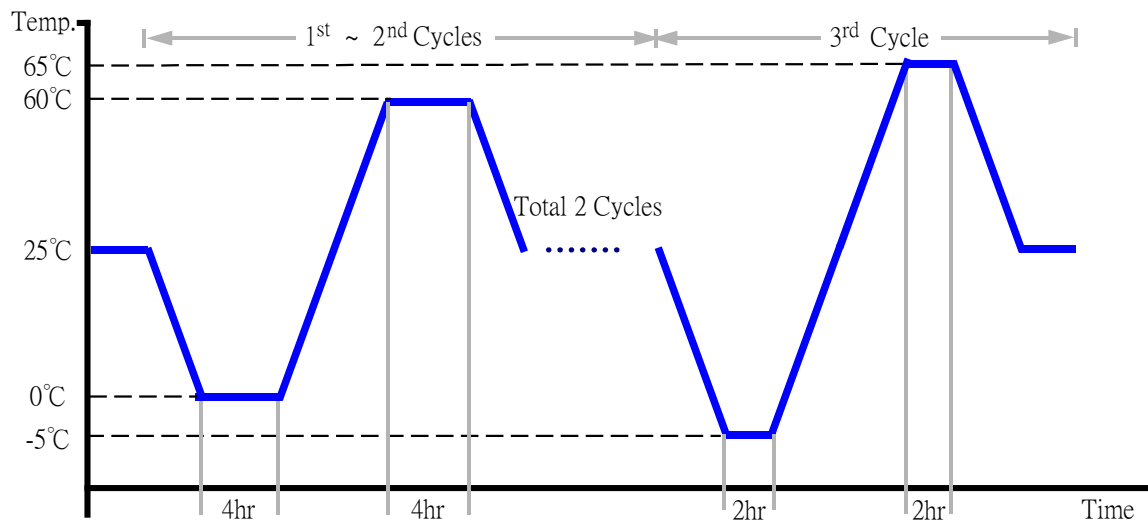
**Test Standard:** Refer to IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/'14  
Serial Number: A0004

**Temperature & Humidity Cycle Test:**

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



**Test Result:**

No issues were found during the temperature variation operation test.

