

# AIOT-BT01

## Temperature/Humidity Test Report

Report NO: 17D020005

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

2017-03-17

QE Manager

KJ Wang

Test Engineer

Jerry Chen

# Test item list

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## Testing Result

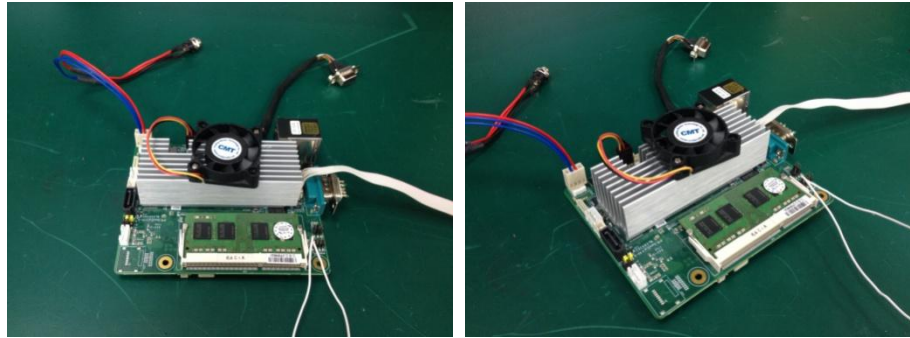
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	

# Configuration of EUT

## Test Product: AIOT-BT01

### Sample Configuration & Quantity Under Test:

1. Model name: AIOT-BT01
2. M/B Name: AIOT-BT01 / Rev. A0.3
3. CPU: Intel Celeron J1900 / 1.99 GHz
4. BIOS Ver. AIOT-BT01 R1.4 (ABT1AM14) (02/17/2017)
5. Chipset: Intel Bay Trail-D
6. Memory: Transcend / 4GB DDR3L 1600 \* 1 pcs / SEC K4B4G0846Q
7. USB Flash: Transcend 8 GB (For DOS Mode Power On/Off Test)
8. On board: Kingston / EMMC32G-M525 / 32GB
9. Test Software: Windows 8.1 / Run PassMark Burn In Test 8.1 Pro
10. Adapter: FSP / FSP060-DIBAN2 / 12V 5A
11. CPU Cooler:



# Temp./humidity power on/off test

**Test Date:** 03-14 ~ 15-2017

**Test Site:** AAEON QE Dept.

**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: (K.SON. INS. TECH. CORP.)  
 Model: THS-B6T-150+LN2  
 Date of Calibration: 03/24/2016  
 Due date of Calibration: 03/23/2017  
 Serial Number: 6487KT

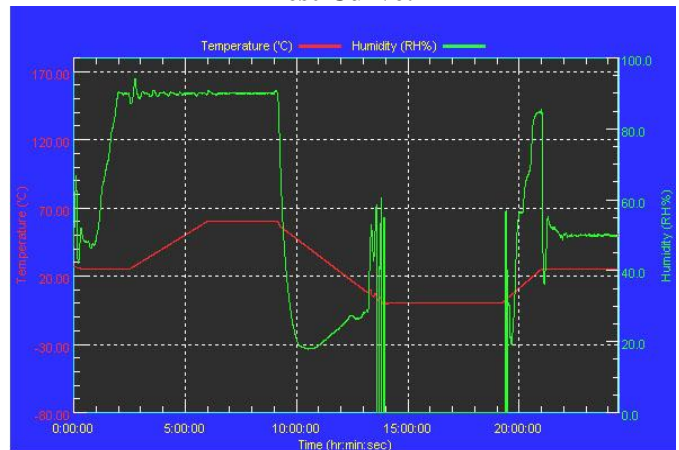
**Temperature & Humidity Power On/Off Test:**

1. Test High Temp./Humidity: 60°C @90%RH
2. Test Low Temperature: 0°C
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 (°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:**

	Actual	Successful	Failure rate	Test Result
Power On/Off	1178/times	1178/times	0 %	Pass

**Note:** 1. Failure rate need to under 0%.  
 2. Power on/off fixture setting: on - 37 sec / off - 37 sec

# Temperature variation operation test

**Test Date:** 03-15 ~ 16-2017

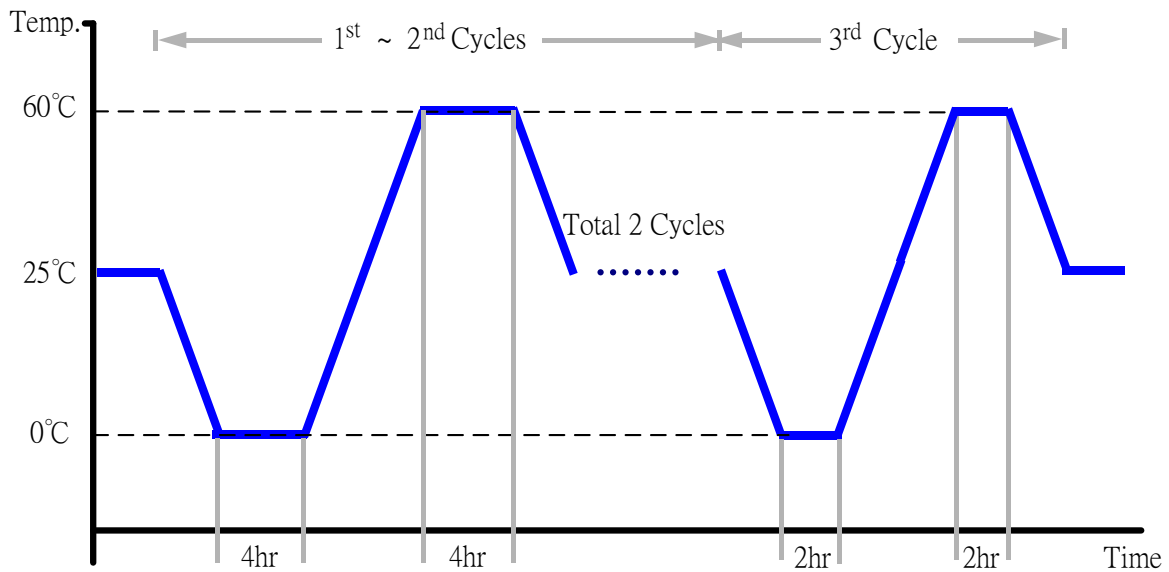
**Test Site:** AAEON QE Dept.

**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-B6T-150+LN2  
Date of Calibration: 03/24/2016  
Due date of Calibration: 03/23/2017  
Serial Number: 6487KT

## Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0°C (1~3 cycles)
2. Test High Temperature: 60°C (1~3 cycles)
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.

# Cold start and hot start test

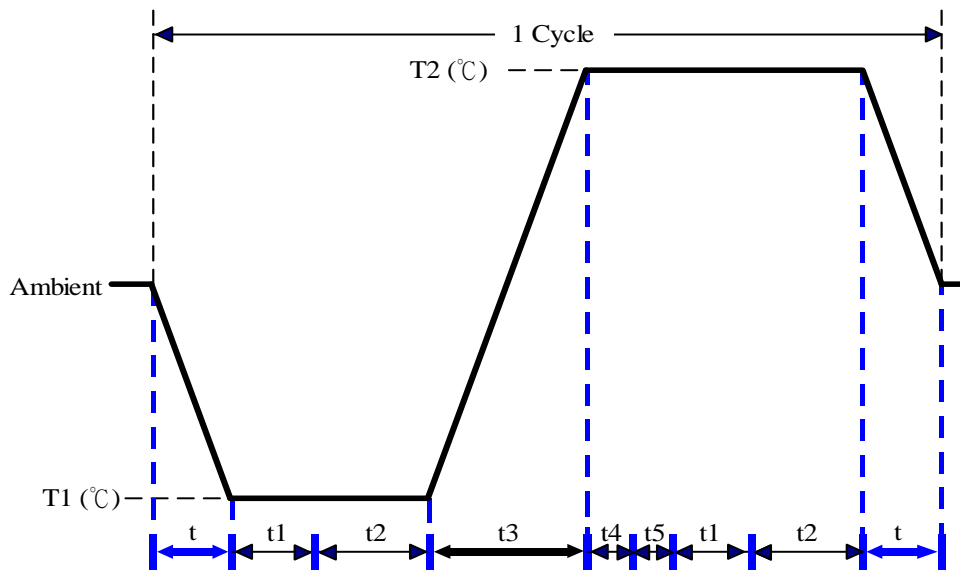
**Test Date:** 03-16 ~ 17-2017

**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-B6T-150+LN2  
Date of Calibration: 03/24/2016  
Due date of Calibration: 03/23/2017  
Serial Number: 6487KT

**Test Condition:**



Parameters	Description
T1	0°C
T2	60°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
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 5min)
- t3, t4: Run PassMark Burn In Test
- T5: Win. 8.1 Software 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.