

UPCP-CR-VPX

Test with UPC-PLUS / A0.4

Temperature/Humidity Test Report

Report NO: 19D020021

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____
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Issue date

2019-07-09

QE Supervisor

Louie Lee

Test Engineer

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Test item list

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Testing Result

Num	Test item list	Result	Remark
1	Temperature variation operation test	Pass	
2	Cold start and hot start test	Pass	

Configuration of EUT

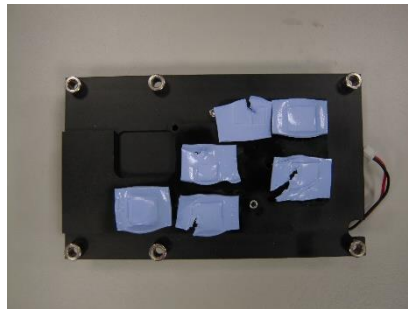
Test Product: UPCP-CR-VPX / A1.0

Sample Configuration & Quantity Under Test:

1. Back Plane: UPC-PLUS / A0.4
2. Connect Board: UP-CRST00 A0.2 / UPC-PSDB00 A0.2
3. CPU: Intel Atom E3940 @1.60GHz
4. BIOS: UPCPSM10
5. Graphics: Intel HD Graphics 500
6. Memory: Samsung K4F8E304HB-MGCJ / LPDDR4 1GB x 2pcs
7. Storage: IC.eMMC 5.1 / Flash.32GBSandisk.SDINBDA4-32G-V
8. Test Software: Ubuntu 16.04 LTS / Run PassMark Burn In Test 3.2 for Linux
9. Power Supply: PS1065-120IB500 12V / 5A / 60W
10. Back Plane & Connect Board:



11. Heat Sink & Fan:



Temperature variation operation test

Test Date: 07-02 ~03-2019

Test Site: AAEON QE Dept.

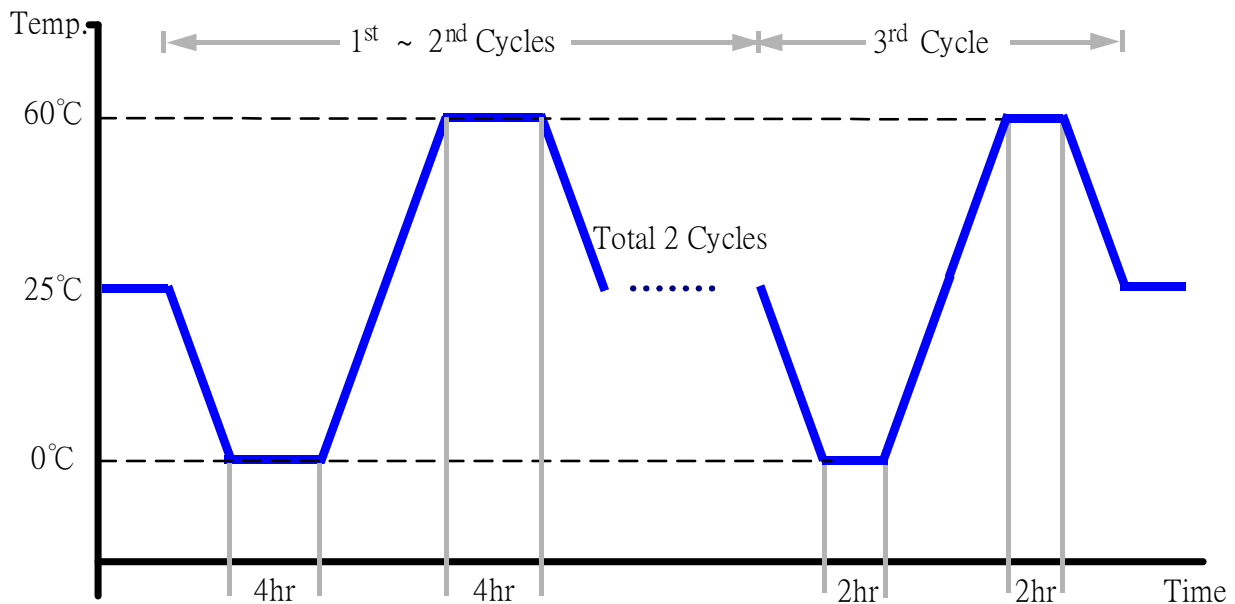
Test Standard: Refer to IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 10/04/18
Due date of Calibration: 10/03/19
Serial Number: 9095KT

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 (3rd 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: 07-04 ~ 05-2019

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.)

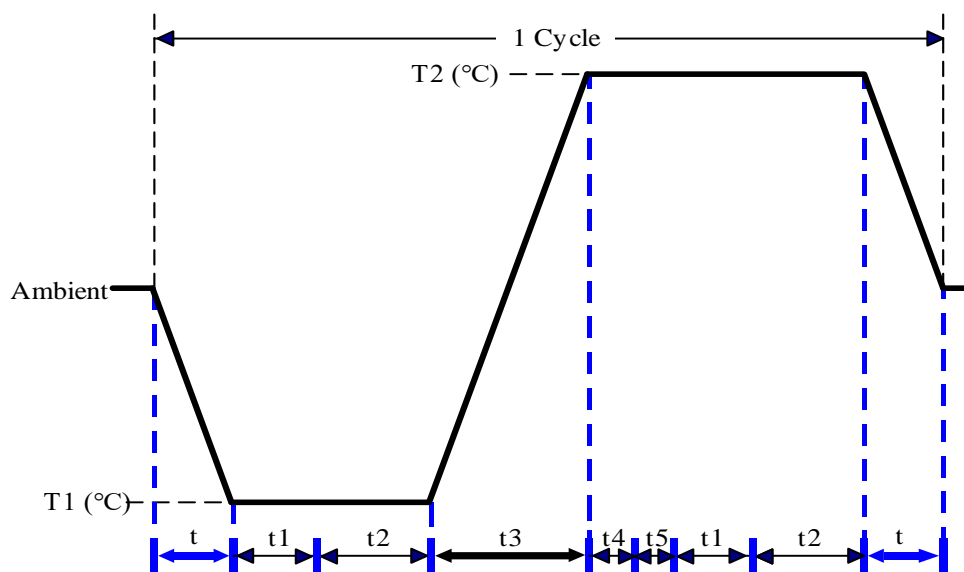
Model: THS-B6T-150+LN2

Date of Calibration: 10/04/18

Due date of Calibration: 10/03/09

Serial Number: 9095KT

Test Condition:



Parameters	Description
T1	0°C
T2	60°C
t1	4hrs
t2, t6	2hrs
t4, t5	1hr
t, t3	2°C/min
n (Cycle)	1

t = temprature slope

t, t1, t6: Power Off

t2:Power on/off test 10 times (on 2min / off 5min)

t3, t4: Run PassMark Burn In Test

t5:Win10 Software restart test 2 times

Test Software: Linux

Test Result:

- No issues were found during the cold start test.
- No issues were found during the hot start test.