UP-CHCR1

(UPC-CHT01)

Temperature/Humidity Test Report

Report NO: 18D020004

	□ Pass
Summary	 Fail Note: There is/are defect(s) not list in the report, please check it in the DTS Website. ✓ Pass with Deviation
	Comment: 1. BIOS set CPU Power Limit #1 Limit to 9W. 2. The System cannot shutdown normally with standard power on/off test(power on 150s/ off 5s, fail at 186 times), but can be passed under
	power on 180s/off 10s(power on/off 1421 times, no failure.)

Issue date	QE Manager	Test Engineer	
2018-03-28	KJ Wang	Ben Sun	

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: UP-CHCR1 A0.2

Sample Configuration & Quantity Under Test:

1. CPU: Intel® ATOM(TM) X5-Z8350 Processor 1.44 GHz

2. BIOS Ver.: UCR1BM13

3. Chipset: Intel® Cherry Trail

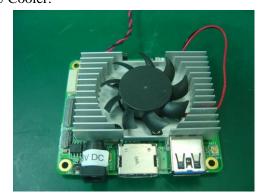
4. Memory: DDR3L 4GB(Samsung-K4B8G1646D-MYK0)

5. Storage: EMMC 64GB(Hynix - H26M78208CMR)

6. Test Software: Windows 10 / Run PassMark Burn In Test 8.1 Pro

7. Adapter: FJ-SW0504000N / 5V / 4A

8. CPU Cooler:



Temp./humidity power on/off test

Test Date: 03-23~ 25-2018

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-D7TS-100+LN2 Date of Calibration: 10/05/17 Due date of Calibration: 10/04/18

Serial Number: 3898

Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60°C @90%RH

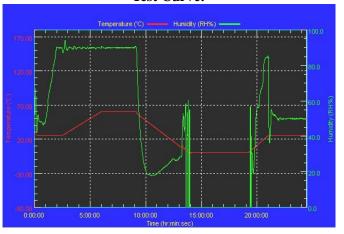
Test Low Temperature: 0°C
 Test Time: 24Hours / Cycle
 Test Cycle: 3 Cycles

5. Test Software: Windows 10 / Run Rebooter program

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	1421/times	1421/times	0 %	Pass

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

2. Power on/off fixture setting: on - 180 sec / off - 10 sec

Temperature variation operation test

Test Date: 03-26 ~ 27-2018

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: 10/05/17 Due date of Calibration: 10/04/18

Serial Number: 3898

Temperature & Humidity Cycle Test:

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

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

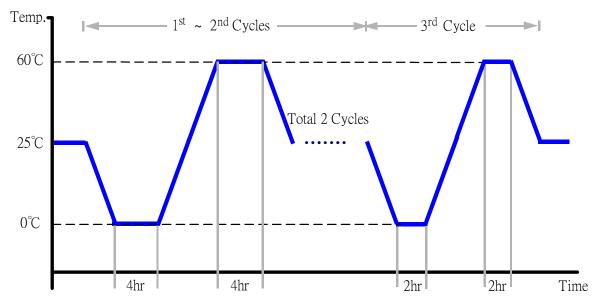
3. Test dwell time: 4Hrs (1~2 cycles)

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: 03-27 ~ 28-2018

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-14 Testing procedures

Test N: Change of temperature Test

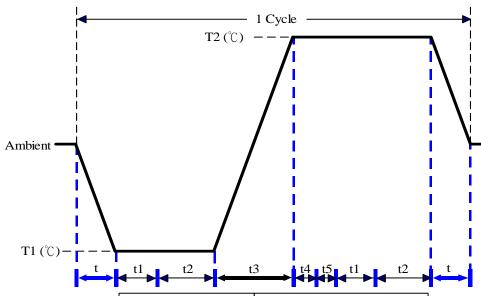
Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)

Model: THS-D7TS-100+LN2 Date of Calibration: 10/05/17 Due date of Calibration: 10/04/18

Serial Number: 3898

Test Condition:



Parameters	Description
T1	$0^{\circ}\mathbb{C}$
T2	60°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t,t3 = temprature 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: Windows 10 Software restart test 2 times

Test Software: Windows 10

Test Result:

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