

GENE-SKU6

Temperature/Humidity Test Report

Report NO:

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>Comment: <u>1.Under PassMark Burn In Test 8.1 Pro, test Network set loading to 100% test failed (Error message shows “Timeout waiting for packet”) , but change to 99% test pass. Please refer to for PASSMARK SOFTWARE</u></p> <p>http://www.passmark.com/forum/showthread.php?2931-How-to-test-burnin-test-with-Network</p>
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Issue date

QE Manager

Test Engineer

2016-08-08

Dinken Chuang

Yungtang Lin

Test item list

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1. *Test item list* ----- 2
 2. *Configuration of EUT* ----- 3
 3. *Temp./humidity power on/off test* ----- 4
 4. *Temperature variation operation test* ----- 5
 5. *Cold start and hot start test* ----- 6

Testing Result

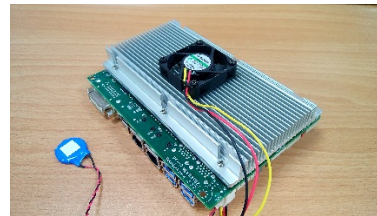
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	

Configuration of EUT

Test Product: GENE-SKU6 A1.0

Sample Configuration & Quantity Under Test:

1. CPU: Intel Skylake i7-6600U 2.6GHz
2. BIOS Ver.R1.2 GSKUAM07(07/04/2016)
3. Chipset: None
4. Memory: Transcend 8GB * 1/ DDR4 2133 / SEC K4A4G085ND
5. USB Flash: Transcend 8GB (For DOS Mode Power On/Off Test)
6. 3.5" SATA HDD: HITACHI H3D3201672S / 320GB
7. Test Software: Windows 8.1 / Run PassMark Burn In Test 8.1 Pro
8. AT Power Supply: EMACS HG2-6400P / 400W (AT to ATX Mode)
9. Heat Sink:



Temp./humidity power on/off test

Test Date: 08-01 ~ 02-2016

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: (K.SON. INS. TECH. CORP.)
 Model: MHU-150LB
 Date of Calibration: 01/26/16
 Due date of Calibration: 01/25/17
 Serial Number: 961138

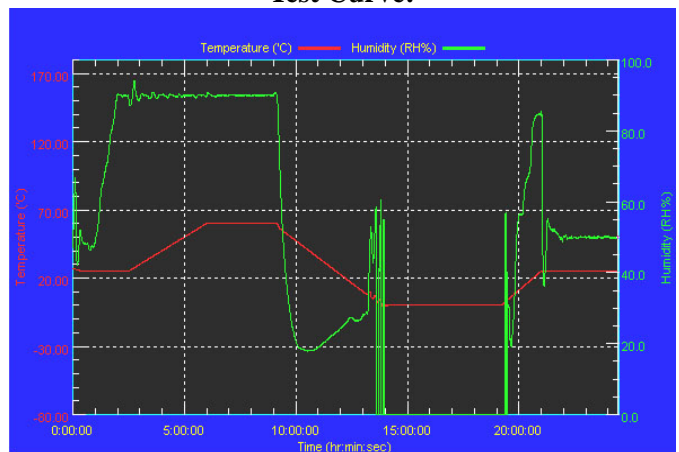
Temperature & Humidity Power On/Off Test:

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:

Test Method	Actual	Successful	Failure rate	Test Result
Power On/Off	1788/times	1788/times	0 %	

Note: 1. Failure rate need to under 0%.
 2. Power on/off fixture setting: on - 35 sec / off - 5 sec

Temperature variation operation test

Test Date: 08-03 ~ 04-2016

Test Site: AAEON Taichung Internal Lab

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: MHU-150LB

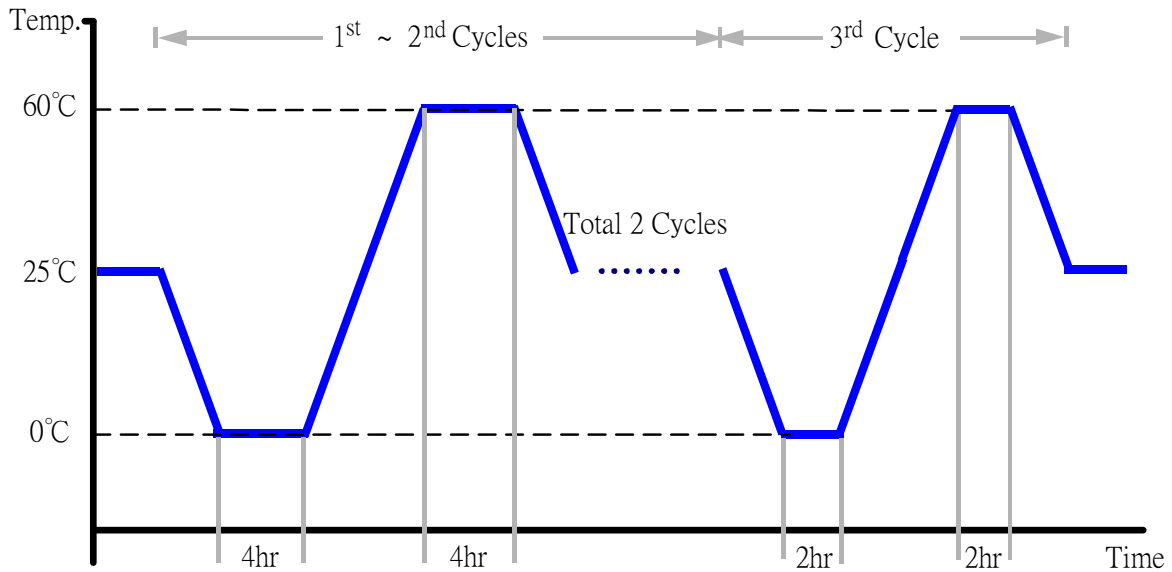
Date of Calibration: 01/26/16

Due date of Calibration: 01/25/17

Serial Number: 961138

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 (3rdcycle)
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: 08-05 ~ 05-2016

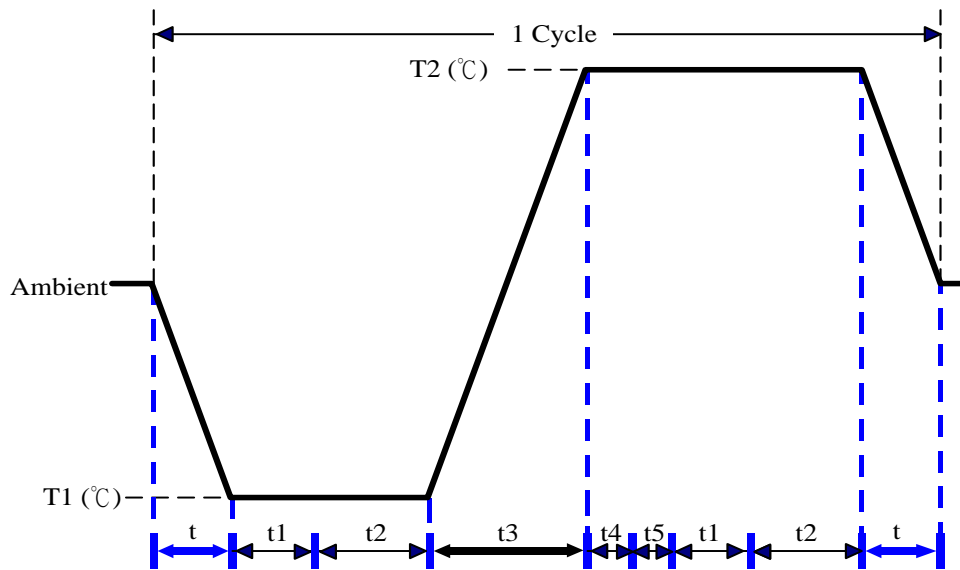
Test Site: AAEON Taichung Internal Lab

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: MHU-150LB
 Date of Calibration: 01/26/16
 Due date of Calibration: 01/25/17
 Serial Number: 961138

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: Windows 8 Software restart test 2 times
 Test Software: Windows 8

Test Result:

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