GENE-A55E A1.1

Temperature/Humidity Test Report

Report NO:

Summary	☐ **Pass** ☐ **Fail** Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website. ☑ **Pass with Deviation** **Comment: 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** http://www.passmark.com/forum/showthread.php?2931-How-to-test-burnin-test-with-Network

Issue date	QE Manager	Test Engineer
2016-09-26	Dinken Chuang	Yungtang Lin

Test item list

Testing Result

Num	Test item list	Result	Remark
1	Temp./humidity power on/offtest	Pass	
2	Temperaturevariationoperation test	Pass	
3	Cold start and hot start test	Pass	

Configuration of EUT

Test Product: GENE-A55E A1.1

Sample Configuration & Quantity Under Test:

1. CPU:AMD T40R/ 1GHz
2. BIOS Ver.R1.5 GA5EAM15(07/27/2016)
3. Chipset: AMD A55E
4. Memory: Transcend 2GB * 1/ DDR3L 1600 / SEC K4B2G0846Q
5. USB Flash: Transcend 8GB (For DOS Mode Power On/Off Test)
6. 3.5” SATA HDD: HITACHI H3D3201672S / 320GB
7. Test Software: Windows 7 / 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/offtest

Test Date:09-19 ~ 20-2016

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

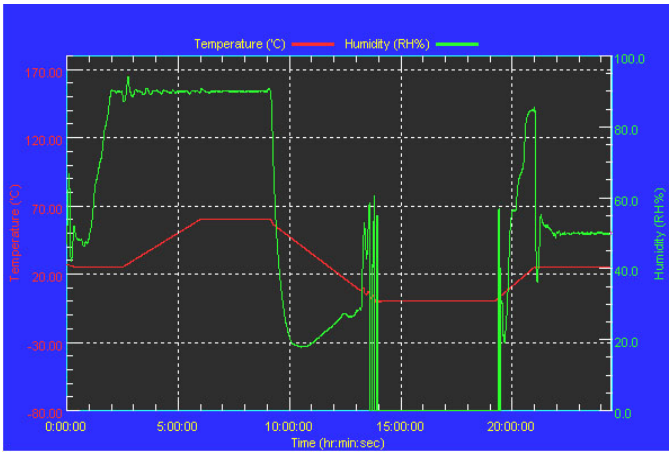
Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60℃@90%RH
2. Test Low Temperature: 0℃
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 (℃)	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	1832/times	1832/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:09-21 ~ 22-2016

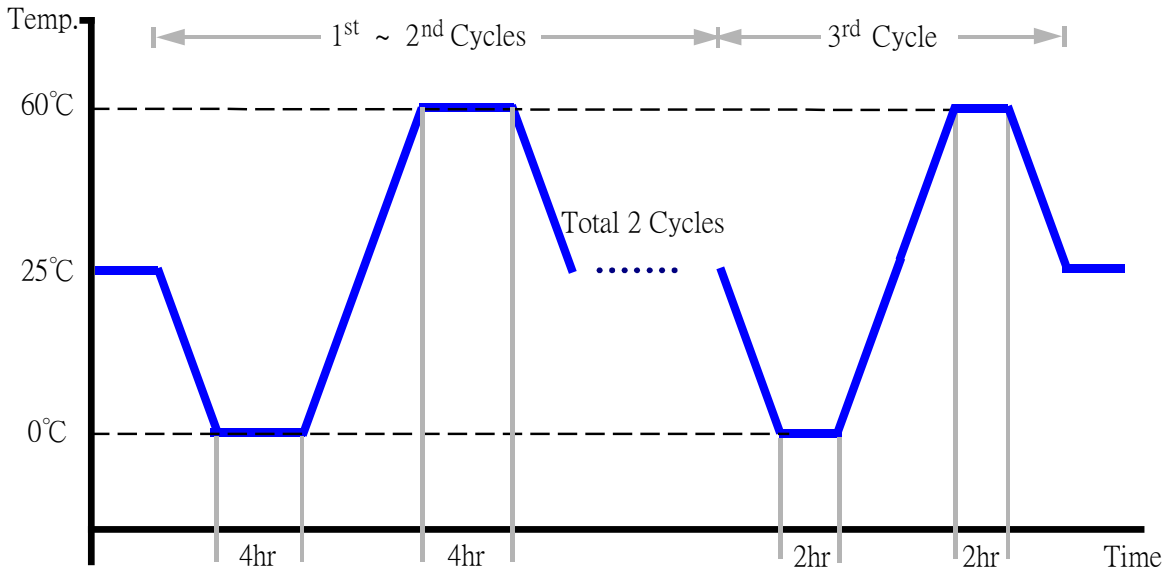
Test Site: AAEON Taichung Internal Lab

Test Standard: Refer toIEC 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℃ (1~3 cycles)
2. Test High Temperature: 60℃(1~3 cycles)
3. Test dwell time: 4Hrs(1~2 cycles)
   2Hrs (3rdcycle)
4. Temperature slope: 2℃/min
5. Test cycle: 3 cycles
6. Test Environment Curve:



Test Result:
No issueswere found during the temperature variationoperation test.

Cold start and hot start test

Test Date:09-23 ~ 23-2016

Test Site: AAEON Taichung Internal Lab

Test Standard: Refer toIEC 68-2-14 Testing procedures

Test N: Change of temperature Test

Test Equipment:

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

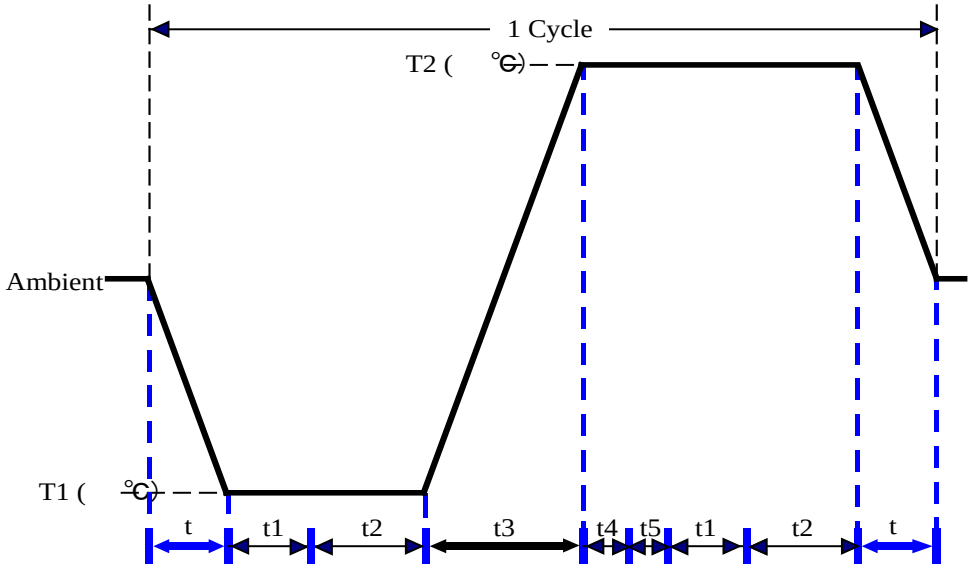
Model: MHU-150LB

Date of Calibration: 01/26/16

Due date of Calibration: 01/25/15

Serial Number: 961138

Test Condition:



Parameters	Description
T1	0℃
T2	60℃
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2℃/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 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.