AAEON®

Computing Platform Service Partner

GENE-1350

Temperature/Humidity Test Report

Report NO: 10E020031

Issued by:	Rex Chang	/	*09/28/2010*
	Test Engineer		**Date**
Reviewed by:	Jansin Lee	/	*09/28/2010*
	Sr. Manager		**Date**

Test item list

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-1350 A0.3

Sample Configuration & Quantity Under Test:

1. CPU: TI 0MAP 3530
2. Chipset: TI 0MAP 3530
3. VGA: TI 0MAP 3530
4. Memory: Onboard 256MB LP DDR RAM / Micron 9TA17 D9JWW
5. Flash : Onboard 2GB / Micron MT29F2G16ABD NAND Flash
6. Test Software: Windows CE 6.0 / Run one Microsoft media player simultaneously
7. Power Adapter: Chi CH-1024

Temp./humidity power on/off test

Test Date: 09-27~28-2010

Test Site: AAEON QE Internal Lab.

Test Standard: Reference IEC 68-2-30 Testing procedures
Test Db: Damp Heat Test

Test Equipment:

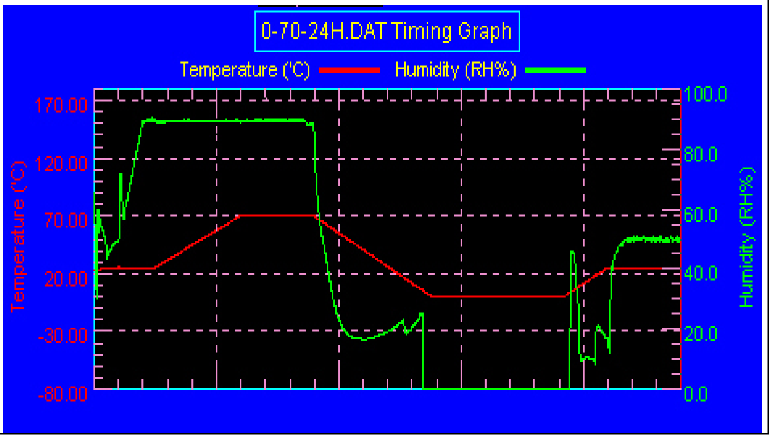
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

Temperature & Humidity Power On/Off Test:

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	70	90	03:30
6	70	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:

No problem was found during the temperature & humidity power on/off test.

Test Method	Actual	Successful	Failure rate
Power On/Off	1926/times	1926/times	0 %
Note: Failure rate need to under 0.2%.			

Temperature variation operation test

Test Date: 09-24~25-2010

Test Site: AAEON QE Internal Lab.

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

Test Equipment:

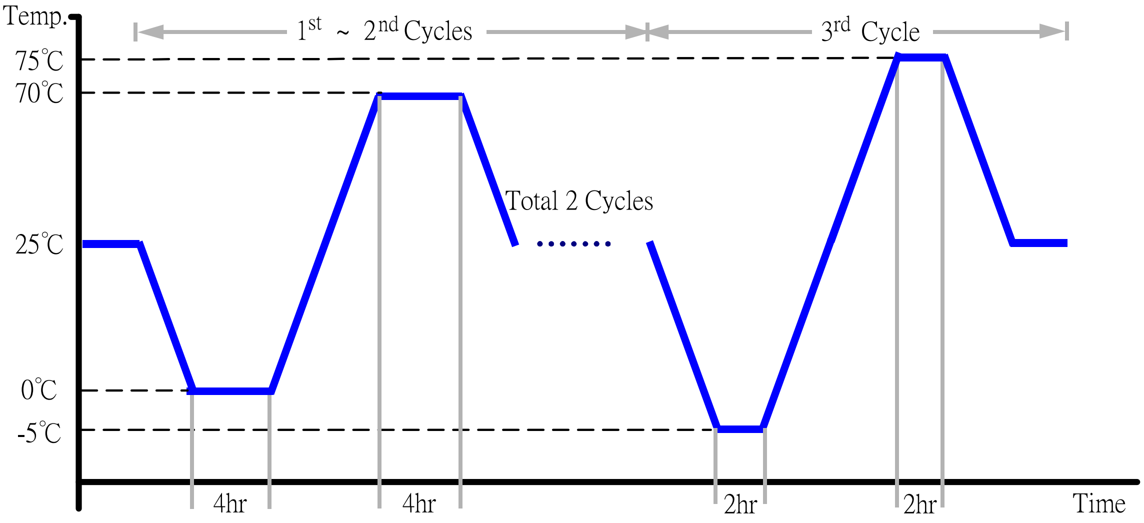
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4H+-100

Date of Calibration: 11/12/09
Serial Number: 2582

Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0℃ (1~2 cycles)
   -5℃ (3rd cycle)
2. Test High Temperature: 70℃ (1~2 cycles)
   75℃ (3rd cycle)
3. Test dwell time: 4Hrs (1~2 cycles)
   2Hrs (3rd cycle)
4. Temperature slope: 2℃/min
5. Test cycle: 3 cycles
6. Test Environment Curve:



Test Result:

No problem was found during the temperature variation operation test.

Cold start and hot start test

Test Date: 09-23~24-2010

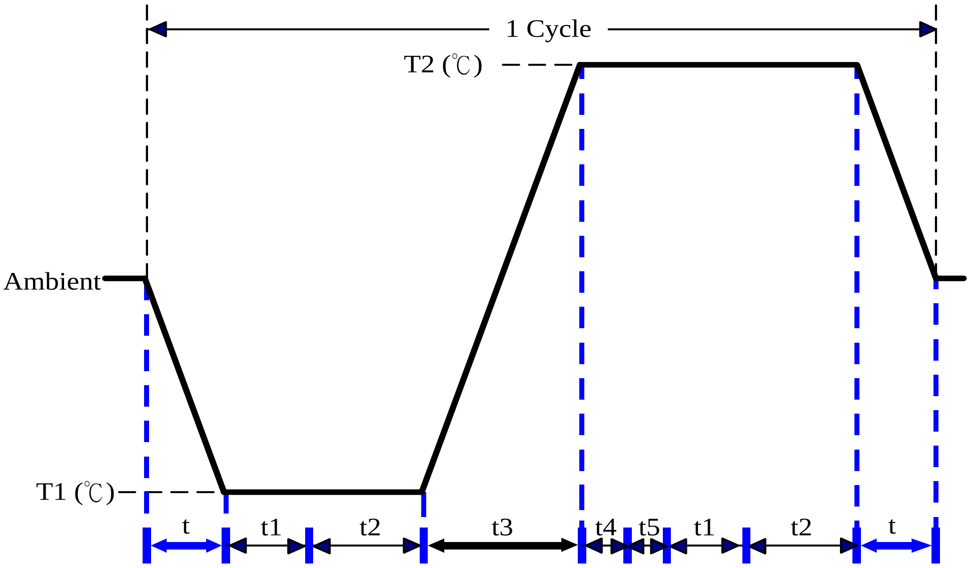
Test Site: AAEON QE Internal Lab.

Test Standard: Reference 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-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

Test Condition:



Parameters	Description
T1	-5℃
T2	75℃
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 one Microsoft media player simultaneously
t5: Win CE power on/off test 2 times
Test Software:Windows CE

Test Result:

a. No problem was found during the cold start test.
b. No problem was found during the hot start test.