GENE-LN05

Temperature/Humidity Test Report

Report NO: 10E020016

Issued by:	Rex Chang	/	*06/10/2010*
	Test Engineer		**Date**
Reviewed by:	Jansin	/	*06/10/2010*
	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	

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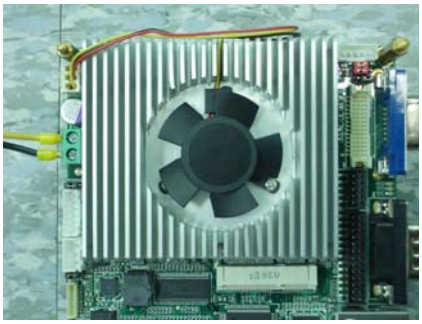
Configuration of EUT

Test Product: GENE-LN05 A0.1

Sample Configuration & Quantity Under Test:

1. CPU: Intel Atom D510 / 1.66GHz (Bios Ver.0.10)
2. Chipset: Intel PineView D/M + ICH8-M
3. VGA: Intel PineView D/M
4. Memory: Transcend 1GB / Qimonda HYB18T512800BF-3S / DDR2-667
5. CFD: PQI 32MB
6. 2.5” SATA HDD: Fujitsu MHY2060BH / 60GB
7. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0
8. AT Power Supply: Zippy SP2-4300F to ATX Mode
9. CPU Cooler:

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Temp./humidity power on/off test

Test Date: 06-08~09-2010

Test Site: AAEON QE Internal Lab.

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

Test Equipment:

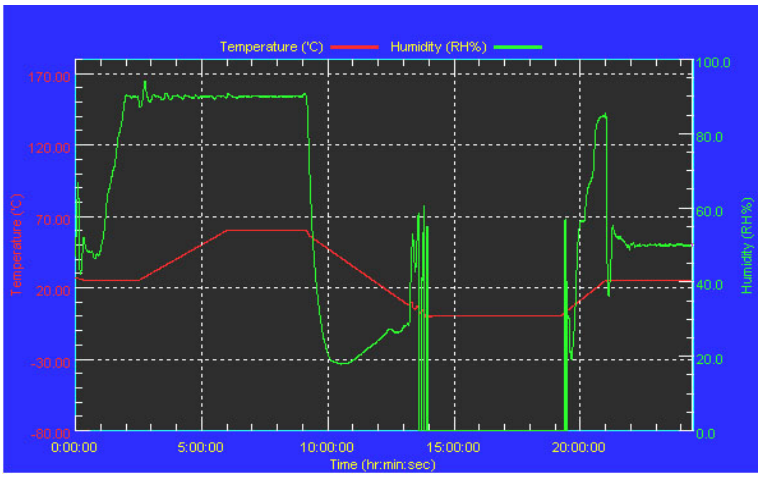
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 11/12/09
Serial Number: 2582

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	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:

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

Test Method	Actual	Successful	Failure rate	On time	Off Time
Power On/Off	1176/times	1176/times	0 %	38 Sec.	38 Sec.
Note: Failure rate need to under 0.2%.					

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Temperature variation operation test

Test Date: 06-09~10-2010

Test Site: AAEON QE Internal Lab.

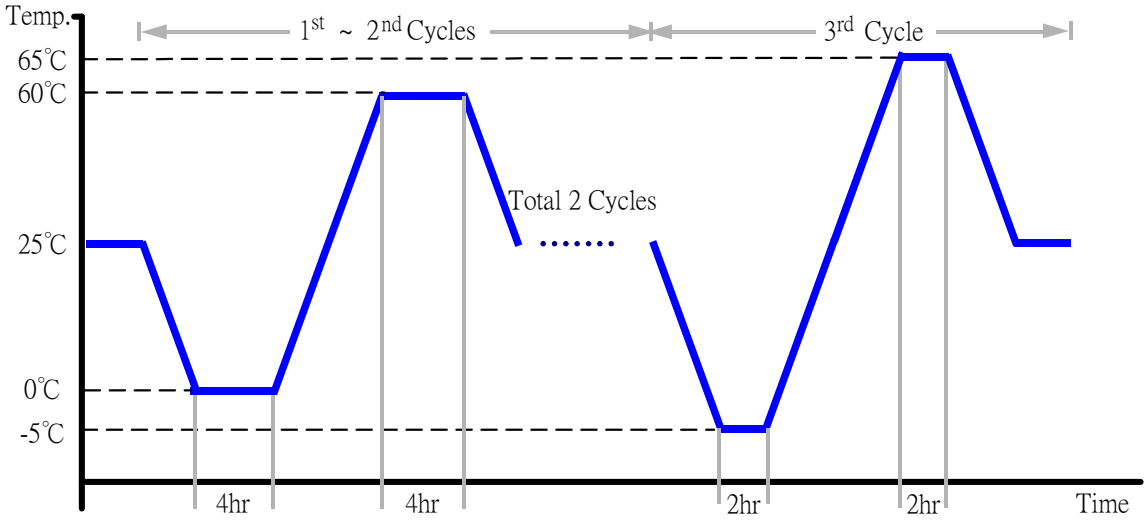
Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

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: 60℃ (1~2 cycles)
   65℃ (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.

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Cold start and hot start test

Test Date: 06-07-2010

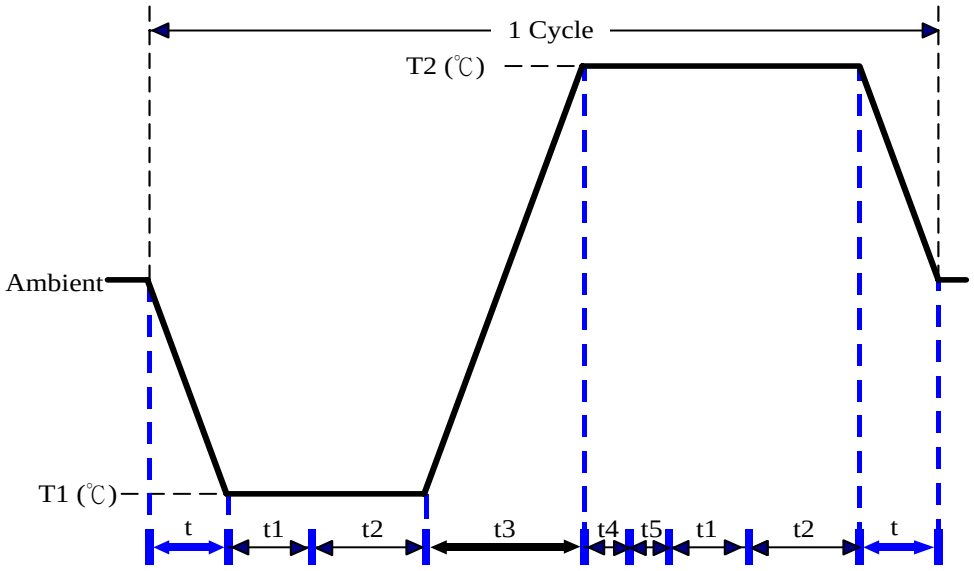
Test Site: AAEON QE Internal Lab.

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	65℃
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: Win XP Software restart test 2 times
Test Software:Windows XP

Test Result:

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

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

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