

GENE-LN05

Ver.B1.0

Temperature/Humidity Test Report

Report NO:11E020029

| | |
|---------|---|
| Summary | <p><input checked="" 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 type="checkbox"/> Pass with Deviation</p> <p>Comment: _____</p> |
|---------|---|

Issue date

2011-06-27

Approval

Jansin Lee

Test Engineer

Matthew Chi

Test item list

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Testing Result

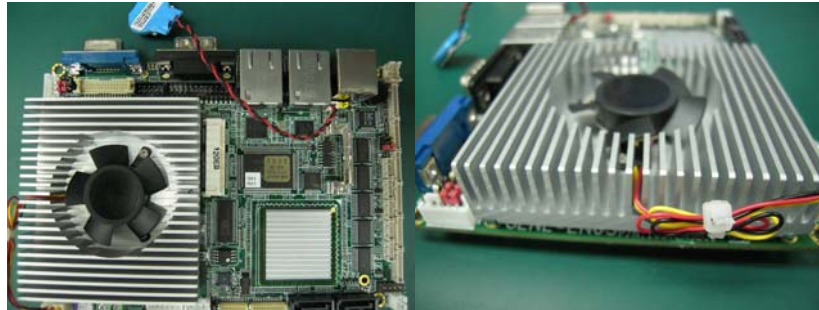
| Num | Test item list | Result | Remark |
|-----|--------------------------------------|--------|--------|
| 1 | Temp./humidity power on/off test | Pass | |
| 2 | Temperature variation operation test | Pass | |
| 3 | Cold start and hot start test | Pass | |

Configuration of EUT

Test Product: GENE-LN05 B1.0

Sample Configuration & Quantity Under Test:

1. CPU: On board Intel Atom D525 1.8GHz (Bios Ver.GENE-LN05 1.10)
2. Chipset: Intel ICH8M
3. Memory: DSL DDR3-1066 4GB
4. HDD: Seagate 3.5" SATA 120GB ST3120827AS
5. Test Software: Windows XP / Run PassMark Burn In Test 6.0 Pro
6. Power Supply: AT Power
7. CPU Cooler:



Temp./humidity power on/off test

Test Date: 06-21 ~ 22-2011

Test Site: AAEON QE Internal Lab.

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

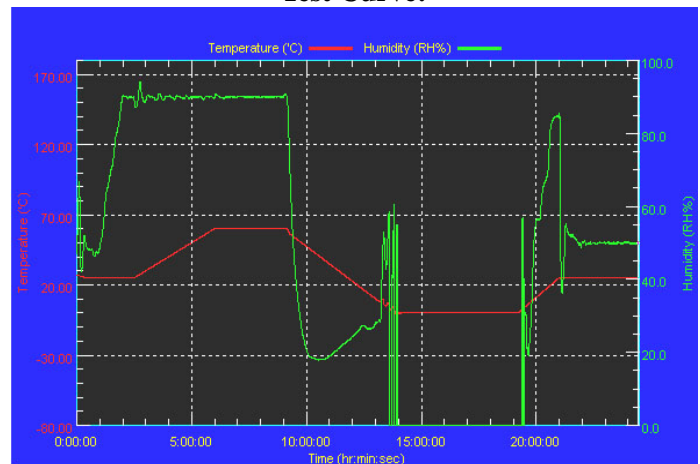
Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-B6T-150+LN2
Date of Calibration: 03/17/11
Serial Number: 6487KT

Temperature & Humidity Power On/Off Test:

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 |
|--------------|------------|------------|--------------|
| Power On/Off | 1276/times | 1276/times | 0 % |

Note: Failure rate need to under 0.2%.

Temperature variation operation test

Test Date: 06-22 ~ 24-2011

Test Site: AAEON QE Internal Lab.

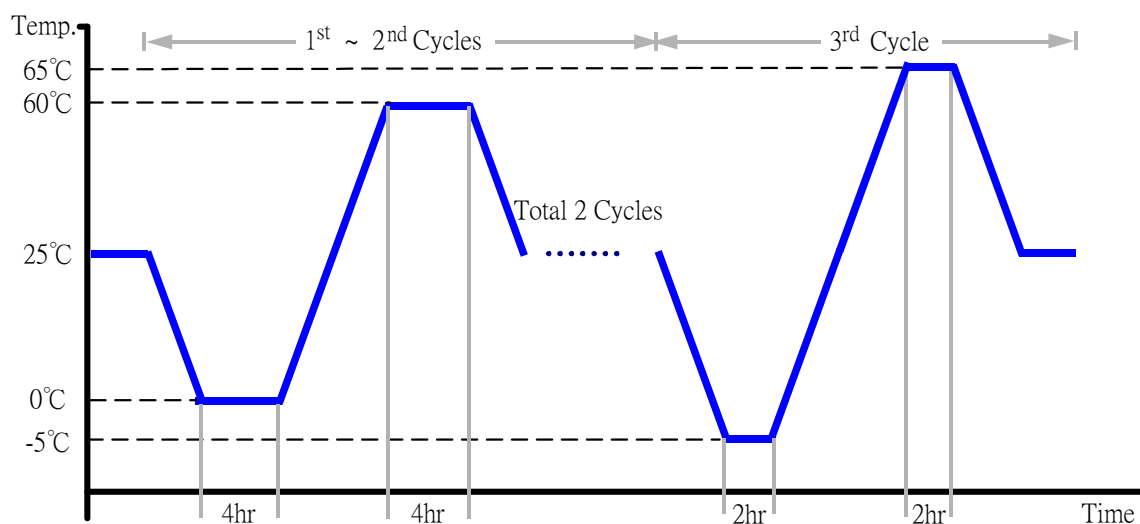
Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-B6T-150+LN2
Date of Calibration: 03/17/11
Serial Number: 6487KT

Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0°C (1~2 cycles)
-5°C (3rd cycle)
2. Test High Temperature: 60°C (1~2 cycles)
65°C (3rd cycle)
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 problem was found during the temperature variation operation test.

Cold start and hot start test

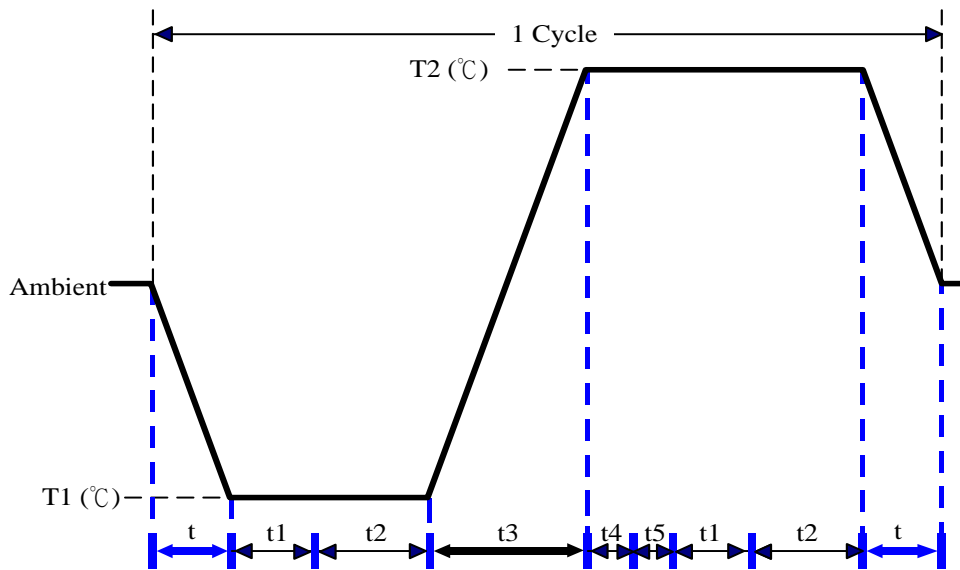
Test Date: 06-21 ~ 22-2011

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-B6T-150+LN2
Date of Calibration: 03/17/11
Serial Number: 6487KT

Test Condition:



| Parameters | Description |
|------------|-------------|
| T1 | -5°C |
| T2 | 65°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: 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.