

XTX-CV

PCB Rev. A0.2

Temperature/Humidity Test Report

Report NO:

| | |
|----------------|---|
| Summary | <p><input checked="" type="checkbox"/> Pass <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> |
|----------------|---|

Issue date

2012-04-17

Approval

Benson Lee

Test Engineer

Ronald Lin

Test item list

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Testing Result

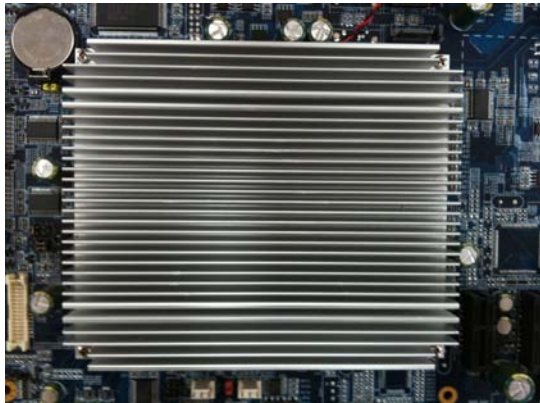
| Num | Test item list | Result | Remark |
|-----|--------------------------------------|--------|--------|
| 1 | Temp./humidity power on/off test | Pass | N/A |
| 2 | Temperature variation operation test | Pass | N/A |
| 3 | Cold start and hot start test | Pass | N/A |

Configuration of EUT

Test Product: XTX-CV A0.2

Sample Configuration & Quantity Under Test:

1. **CPU:** Intel Atom Processor N2600 (1M Cache, 1.6 GHz)
2. **Chipset:** Intel NM10 Express Chipset
3. **VGA:** Intel Graphics Media Accelerator 3600 Series
4. **Memory:** Team 2GB / hynix H5TQ2G83AFR-H9C / DDR3 1333
5. **BIOS Reversion:** XTCVAM05
6. **USB Flash:** Adata Theme T802 / 8GB (for Power On/Off test)
7. **SATA HDD:** WD 160GB / WD1600BUdT-63DPZY0
8. Test Software: Windows 7 x32 with SP1/ Run PassMark BurnInTest Pro v7.0 build 1009
9. Power Supply: FSP PPA3501300 (AT-Mode)
10. Cooler:



Temp./humidity power on/off test

Test Date: 2012-04-11~04-12

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2012/03/07

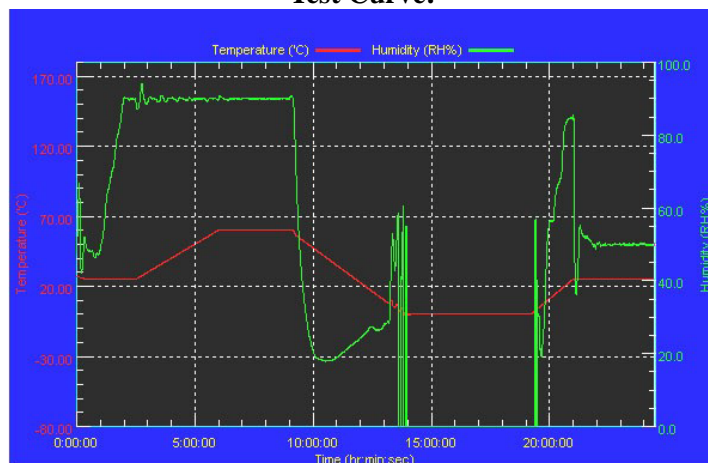
Serial Number: 961138

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:

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

| Test Method | Actual | Successful | Failure rate |
|--|--------------------|--------------------|--------------|
| Power On/Off | 2800 /times | 2800 /times | 0 % |
| Note: Failure rate need to under 0.2%. | | | |

Temperature variation operation test

Test Date: 2012-04-16~04-17

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

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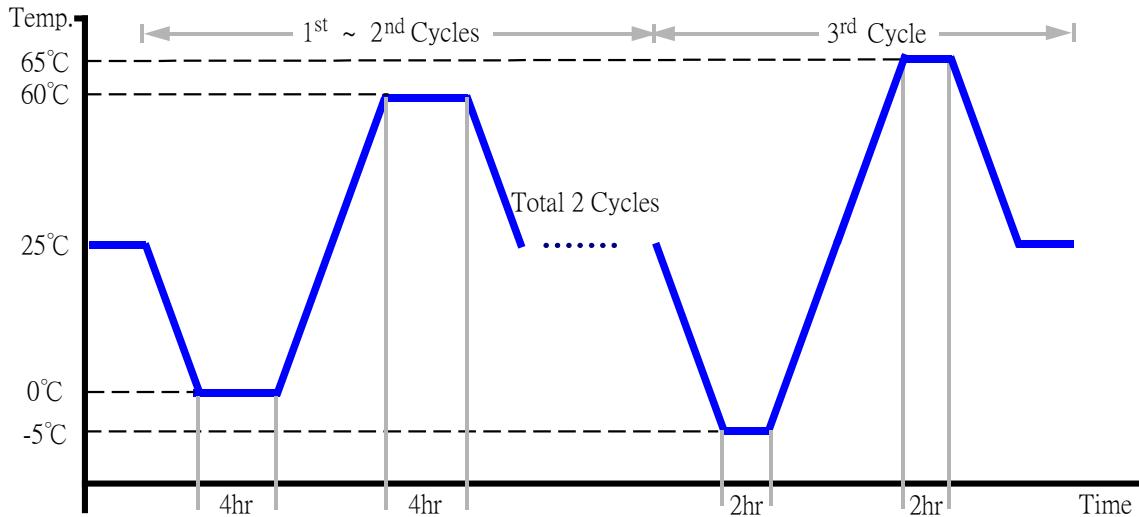
Model: MHU-150LB

Date of Calibration: 2012/03/07

Serial Number: 961138

Temperature & Humidity Cycle Test:

1. Test Low Temperature: **0°C** (1st~2nd cycles)
-5°C (3rd cycle)
2. Test High Temperature: **60°C** (1st~2nd cycles)
65°C (3rd cycle)
3. Test dwell time: **4Hrs** (1st~2nd 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: 2012-04-17

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

Programmable Temperature & Humidity Chamber

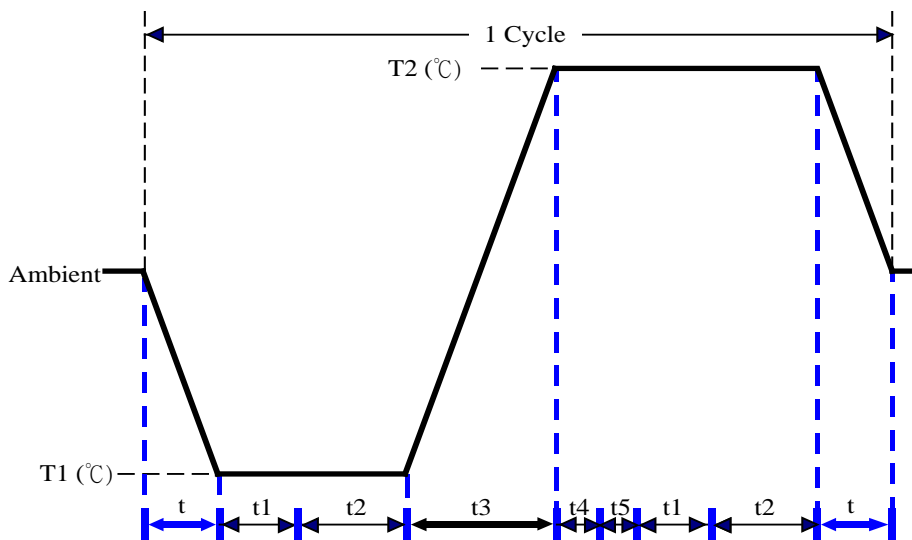
TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2012/03/07

Serial Number: 961138

Test Condition:



| Parameters | Description |
|------------|-------------|
| T1 | -5°C |
| T2 | 65°C |
| t1 | 1 hr |
| t2 | 2 hrs |
| t4, t5 | 30 mins |
| 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 mins / Off 5 mins)

t5: Windows soft restart test 2 times

Test software: Windows 7 Ultimate x32 Edition

Test Result:

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