GENE-BT05

PCB Rev. A0.3

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

Issue date	Approval	Test Engineer
2014-06-12	**Daniel Peng**	**Lena Cho**

Test item list

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

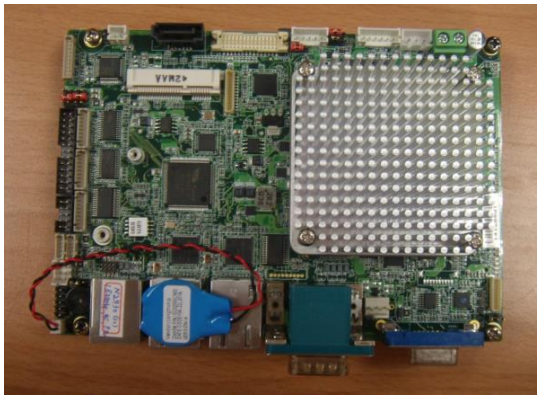
AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

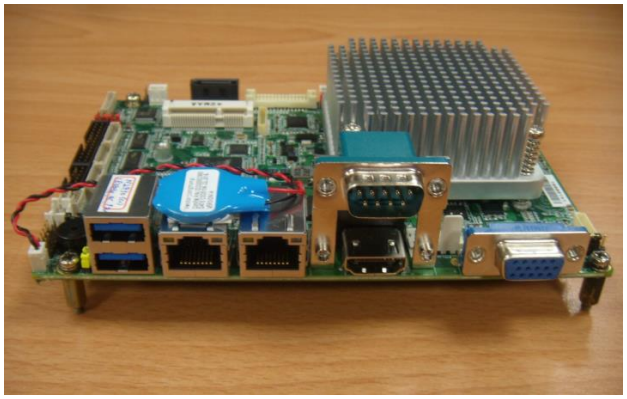
Configuration of EUT

Test Product: GENE-BT05 A0.3

Sample Configuration & Quantity Under Test:

1. **SOC**: Intel® Celeron™ Processor N2930 (2M Cache, 1.83 GHz)
2. **VGA**: Bay Trail – M integrated, GFX@ 313 MHz
3. **Memory**: Transcend 8G DDR3L 1600 SODIMM / K4B4G0846B
4. **BIOS Reversion**: GBT5CT01.BIN
5. **USB Flash Drive**: Sandisk cruzer 4GB (for Power On/Off test)
6. **SATA HDD**: Crucial m4 SSD 2.5 64GB SATA 6Gb/s
7. Test Software: Windows 8 x32/ Run PassMark BurnInTest Pro v7.1 build 1017
8. Power Supply: HG2-6400P (AT-Mode)
9. Passive Heatsink: M166666013





AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

Temp./humidity power on/off test

Test Date: **2014-06-03~06-04**

Test Site: AAEON Taichung Internal Lab

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

Test Equipment:

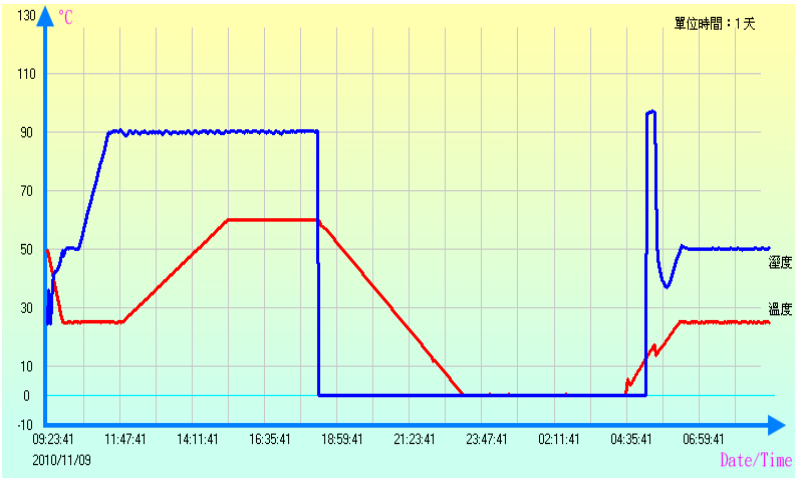
Programmable Temperature & Humidity Chamber
TERCHY. TECH. CORP.
Model: MHU-150LB
Date of Calibration: 2014/03/17
Serial Number: 961138

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
Power On/Off	**1895 times**	**1895 times**	**0 %**
Note: Failure rate need to under 0.0%.			

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

Temperature variation operation test

Test Date: **2014-05-30~05-31**

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.

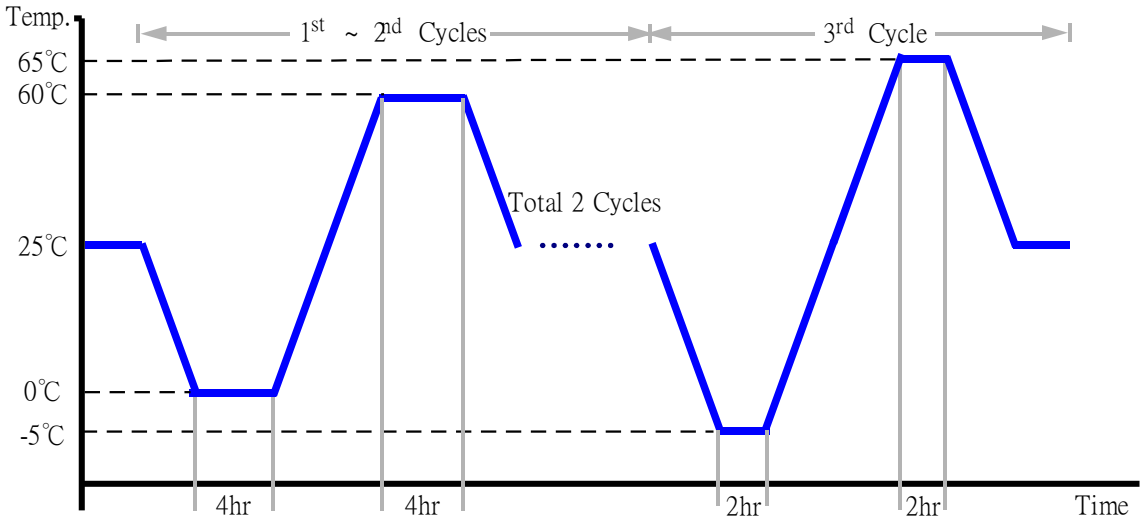
Model: MHU-150LB

Date of Calibration: 2014/03/17

Serial Number: 961138

Temperature & Humidity Cycle Test:

1. Test Low Temperature: **0℃** (1^{st}~2^{nd} cycles)
   -5℃ (3^{rd} cycle)
2. Test High Temperature: **60℃** (1^{st}~2^{nd} cycles)
   65℃ (3^{rd} cycle)
3. Test dwell time: **4Hrs** (1^{st}~2^{nd} cycles)
   2Hrs (3^{rd} 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.

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

Cold start and hot start test

Test Date: **2014-06-05**

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

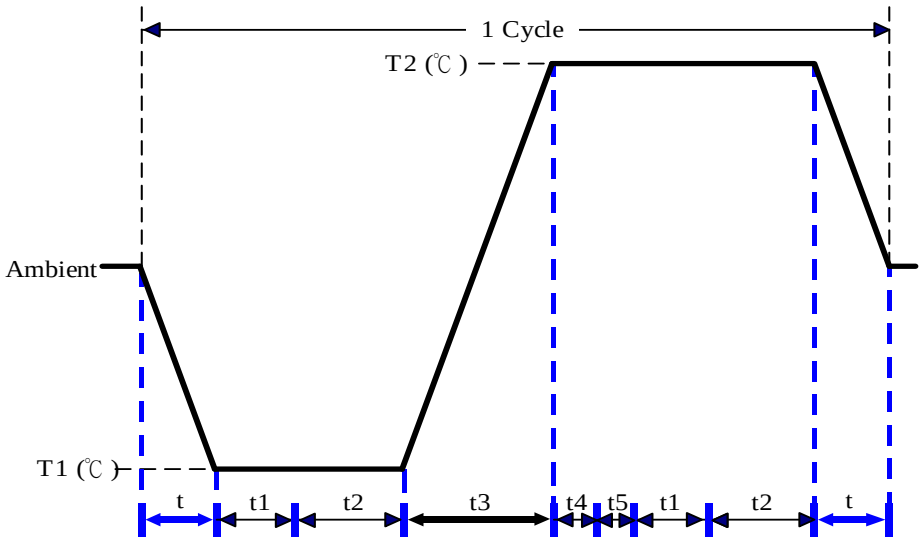
TERCHY. TECH. CORP.

Model: MHU-150LB

Date of Calibration: 2014/03/17

Serial Number: 961138

Test Condition:



Parameters	Description
T1	-5℃
T2	65℃
t1	1 hr
t2	2 hrs
t4, t5	30 mins
t, t3	2℃/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 8 x32 Edition

Test Result:

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

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

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw