PCM-3336-BRIDGE

INTEL ATOM N455 CPU

Temperature/Humidity Test Report

Report NO: 13E020019

Summary	☑ **Pass** ☐ **Fail** Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website. ☐ **Pass with Deviation** **Comment: _____**

Issue date	Approval	Test Engineer
2013-12-02	Tom Lin	Jerry Chen

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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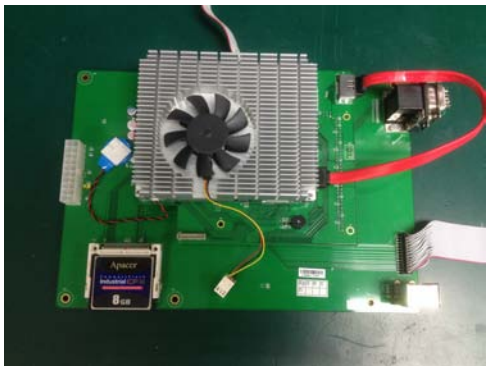
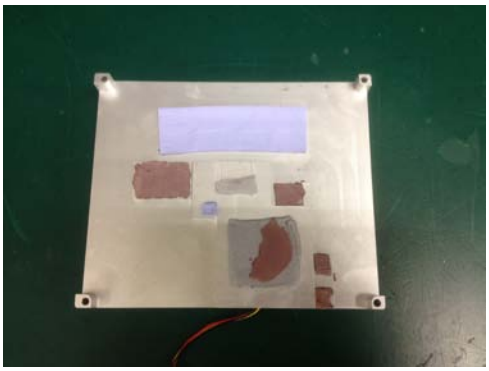
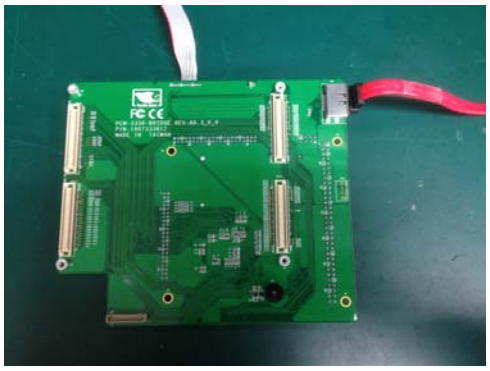
Configuration of EUT

Test Product: PCM-3336-BRIDGE REV. A0.3

Sample Configuration & Quantity Under Test:

1. CPU: Intel Atom N455 / 1.66GHz
2. BIOS Ver.: PCM-3336-BRIDGE R1.4(L336AM14)(11/05/2013)
3. Chipset: North Bridge (Intel N455) / South Bridge (Intel ICH8M)
4. Memory: DSL DDR3 1066 / 2GB / (ELPIDA / J1108BFBG-DJ-F) * 1
5. Industrial CF: Apacer CF 8GB (For DOS Mode Power On/Off Test)
6. Test Software: DOS Mode / Run Memtest 86 v4.20
7. ATX Power Supply: CWT DSA400P-C
8. CPU Cooler: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Temp./humidity power on/off test

Test Date: 11-26 ~ 11-27-2013

Test Site: AAEON QE Dept.

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

Test Equipment:

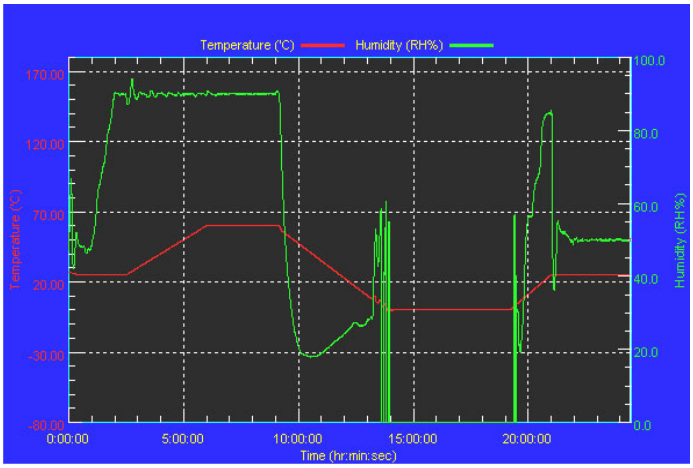
Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 06/11/13
Serial Number: 9095KT

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:

Test Method	Actual	Successful	Failure rate
Power On/Off	1867/times	1867/times	0 %
Note: Failure rate need to under 0.2%.			

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Temperature variation operation test

Test Date: 11-27 ~ 28-2013

Test Site: AAEON QE Dept.

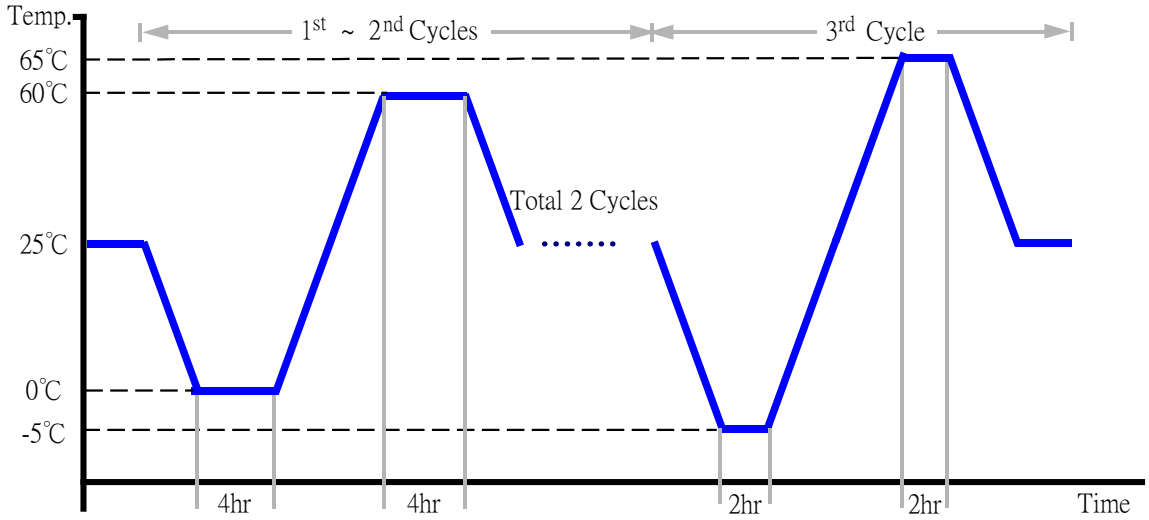
Test Standard: Refer to IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2
Date of Calibration: 06/11/13
Serial Number: 9095KT

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 issues were found during the temperature variation operation test.

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