EPIC-KBS8

Temperature/Humidity Test Report

Report NO: 18E020001

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:** The Network LAN load setting 100% testing failed under the PassMark BurnIn Test 8.1 Pro, but setting to 99% can test pass. The fail message shows (Timeout waiting for packet). Please refer to the PASSMARK SOFTWARE as below: http://www.passmark.com/forum/showthread.php?2931-How-to-test-burnin-test-with-Network

Issue date	QE Manager	Test Engineer
2018-03-29	**KJ Wang**	**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	

Configuration of EUT

Test Product: EPIC-KBS8

Sample Configuration & Quantity Under Test:

1. Model name: EPIC-KBS8

2. M/B Name: EPIC-KBS8 / Rev. A1.0_0_2

3. CPU: Intel Core i7-7700T CPU @ 2.90GHz

4. BIOS Ver.: EPIC-KBS8 R0.7 (EKS8AM07) (03/14/2018)

5. Chipset: PCH H110

6. Memory: DSL / DDR4 2666 8GB CL18 ECC / D4XM1G081SH26A-C

7. 2.5" SATA HDD: HITACHI / Z5K320-160 / 160GB

8. Test Software: Windows 10 / Run PassMark Burn In Test 8.1 Pro (1022)

9. Power supply: Zippy / HG2-6400P / 400W (MAX)

10. Cooler:
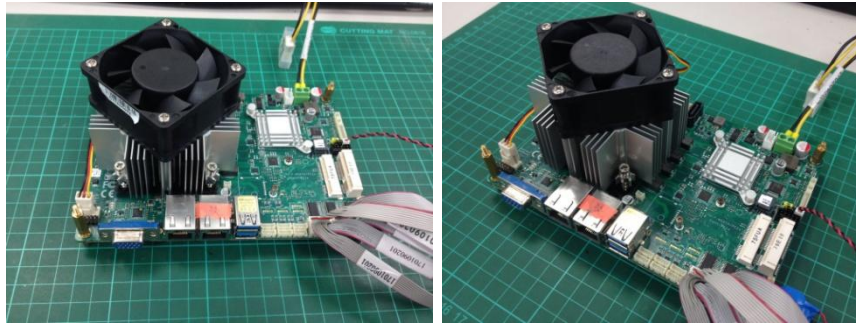
Temp./humidity power on/off test

Test Date: 03-23 ~ 26-2018

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-30 Testing procedures
Test Db: Damp Heat Test
Refer to IEC 68-2-1 Testing procedures
Test Ad: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-B6T-150+LN2

Date of Calibration: 03/16/2018
Due date of Calibration: 03/15/2019
Serial Number: 6487KT

Temperature & Humidity Power On/Off Test:
1.   Test High Temp./Humidity: 60℃ @90%RH
2.   Test Low Temperature: 0℃
3.   Test Time: 24Hours / Cycle
4.   Test Cycle: 1 Cycles
5.   Test Software: DOS Mode / Run Boot Up Record Program ver 1.41

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:
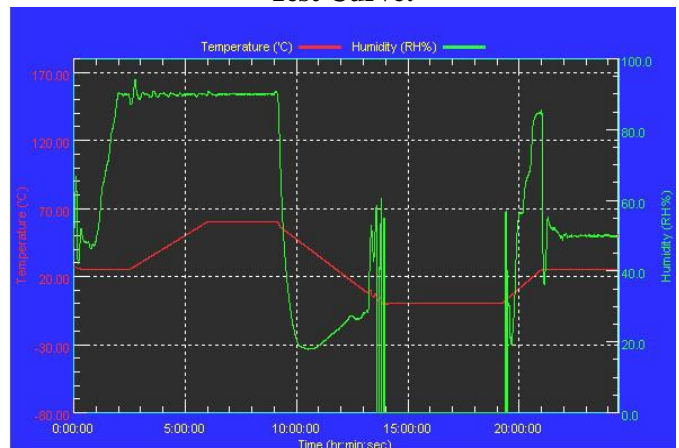
Test Result:

	Actual	Successful	Failure rate	Test Result
Power On/Off	1843/times	1843/times	0 %	Pass

Note: 1. Failure rate need to under 0%.

2. Power on/off fixture setting: on - 40sec. / off - 5sec.

Temperature variation operation test

Test Date: 03-27 ~ 28-2018
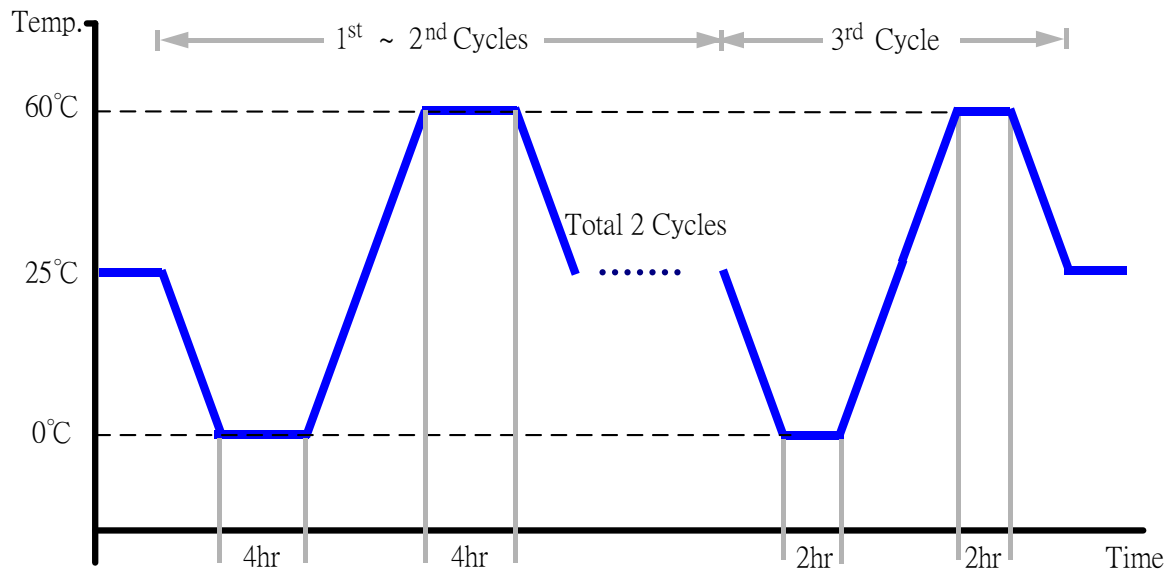
Test Site: AAEON QE Dept.

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: 03/16/2018
   Due date of Calibration: 03/15/2019
   Serial Number: 6487KT

Temperature & Humidity Cycle Test:

   1. Test Low Temperature: 0℃ (1~3 cycles)

   2. Test High Temperature: 60℃ (1~3 cycles)

   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.
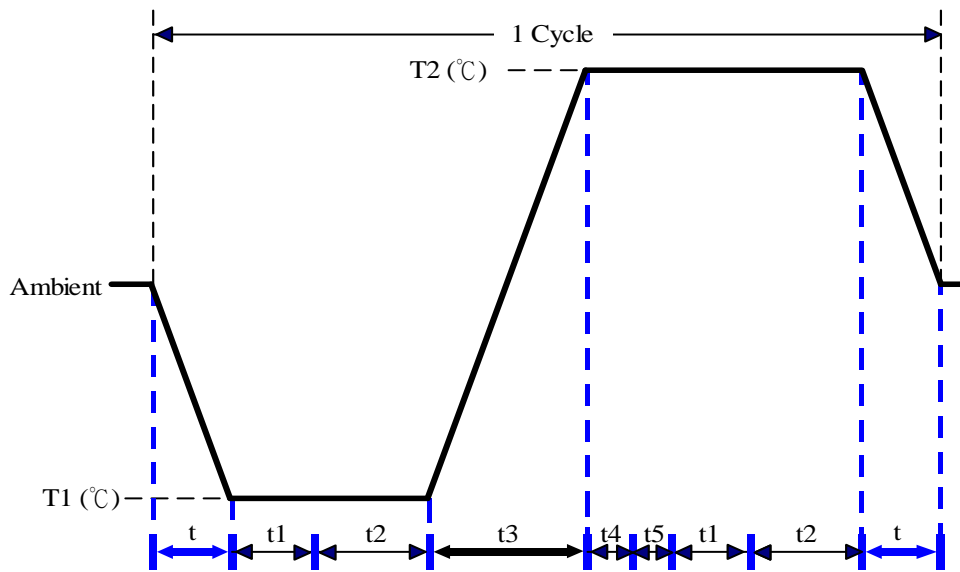
Cold start and hot start test

Test Date: 03-26 ~ 27-2018

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: 03/16/2018
Due date of Calibration: 03/15/2019
Serial Number: 6487KT

Test Condition:

Parameters	Description
T1	0℃
T2	60℃
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. 10 Software restart test 2 times
Test Software:Windows 10

Test Result:

  a. No issues were found during the cold start test.

  b. No issues were found during the hot start test.