PICO-APL1

Temperature/Humidity Test Report

Report NO:

	▼ Pass
Summary	□ Fail
	☐ Pass with Deviation Comment:

Issue date	Approval	Test Engineer	
2017-5-15	Dinken Chuang	Daniel Peng	

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: PICO-APL1 A0.2

Sample Configuration & Quantity Under Test:

- 1. CPU: Intel ApolloLake N4200 / 1.1GHz
- 2. BIOS Ver. R1.0 ZAP1AM10 (04/13/2017)
- 3. Chipset: Intel ApolloLake N4200
- 4. Memory: Transcend 8GB *1/ DDR3L 1600 / SEC K4B4G0846D
- 5. 2.5" SATA HDD: TOSHIBA MQ01ABD100 / 1TB
- 6. Test Software: Windows 10 / Run PassMark Burn In Test 8.1 Pro
- 7. AT Power Supply: Zippy HG2-6400P / 400W (AT to ATX Mode)
- 8. Heat Sink:





Temp./humidity power on/off test

Test Date: 5-12~14-2017

Test Site: AAEON Taichung Internal Lab

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: (King Son Technology Co.)

Model: THS-A4C-100

Date of Calibration: 01/18/17 Due date of Calibration: 01/19/18

Serial Number: 3188

Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60°C @90%RH

Test Low Temperature: 0°C
 Test Time: 24Hours / Cycle

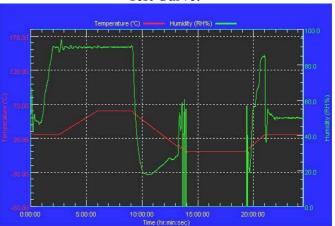
4. Test Cycle: 2 Cycles

5. Test Software: PassMark reboot

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:

	Actual	Successful	Failure rate	Test Result
Power On/Off	1227/times	1227/times	0 %	Pass

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

2. Power on/off fixture setting: on -150 sec / off - 5 sec

Temperature variation operation test

Test Date: 5-8~9-2017

Test Site: AAEON Taichung Internal Lab

Test Standard: Refer to IEC 68-2-14 Testing procedures

Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (King Son Technology Co.)

Model: THS-A4C-100

Date of Calibration: 01/18/17 Due date of Calibration: 01/19/18

Serial Number: 3188

Temperature & Humidity Cycle Test:

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

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

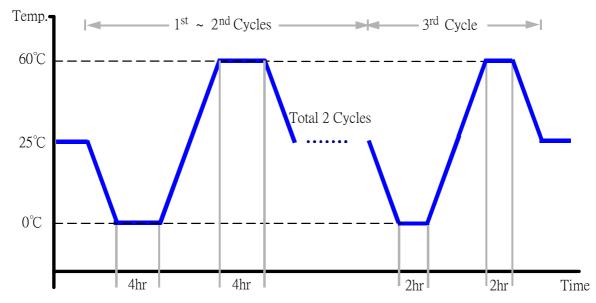
3. Test dwell time: 4Hrs (1~2 cycles)

2Hrs (3rd cycle)

4. Temperature slope: 2°C/min

5. Test cycle: 3 cycles

6. Test Environment Curve:



Test Result:

No issues were found during the temperature variation operation test.

Cold start and hot start test

Test Date: 5-11~12-2017

Test Site: AAEON Taichung Internal Lab

Test Standard: Refer to IEC 68-2-14 Testing procedures

Test N: Change of temperature Test

Test Equipment:

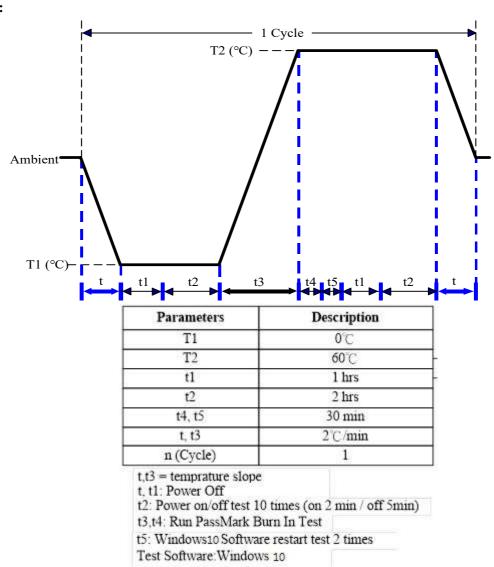
Programmable Temperature & Humidity Chamber: (King Son Technology Co.)

Model: THS-A4C-100

Date of Calibration: 01/18/17 Due date of Calibration: 01/19/18

Serial Number: 3188

Test Condition:



Test Result:

- a. No issues were found during the cold start test.
- b. No issues were found during the hot start test.