

PICO-BT01

Temperature/Humidity Test Report

Report NO:

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____
---------	--

Issue date

2017-12-07

Approval

Edwin Luo

Test Engineer

Ricky Liang

Test item list

-
1. *Test item list* ----- 2
 2. *Configuration of EUT* ----- 3
 3. *Temp./humidity power on/off test* ----- 4
 4. *Temperature variation operation test* ----- 5
 5. *Cold start and hot start test*----- 6

Testing Result

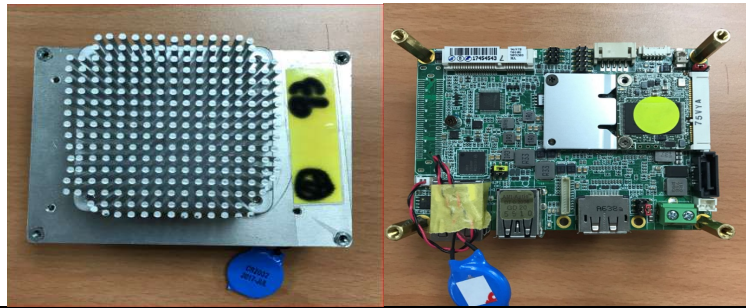
Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	

Configuration of EUT

Test Product: PICO-BT01A1.1_0_1

Sample Configuration & Quantity Under Test:

1. CPU: Intel® Celeron® CPU J1900 @ 2.00GHz
2. BIOS Ver. PICO-BT01 R1.3 (ZBT1BM13)
3. Chipset: Intel® Celeron® CPU J1900 @ 2.00GHz
4. Memory: Innodisk 8GB *1/ DDR3L 1600 / M3S0-8GSSDLQE-26
5. Storage: mSATA DEMSM-32GD09BW1DC-26
6. Test Software: Windows 10 / Run Pass Mark Burn In Test 8.1 Pro
7. AT Power Supply: EMACS HG2-6400P / 400W (AT to ATX Mode)
8. Heat Sink:



Temp./humidity power on/off test

Test Date: 12-04~05-2017

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: MHK-225NK
 Date of Calibration: 02/16/17
 Due date of Calibration: 02/17/18
 Serial Number: 1000122

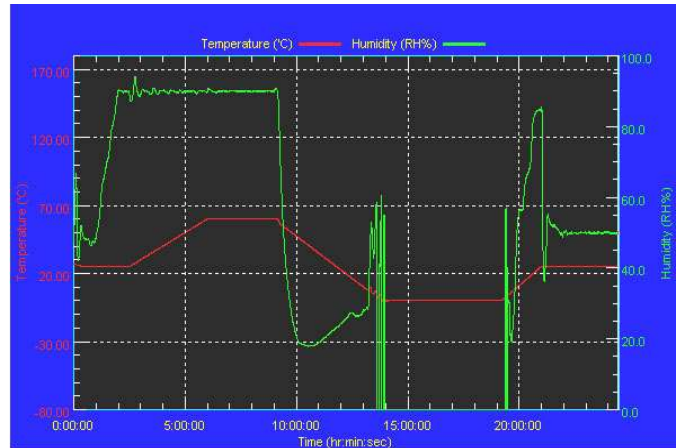
Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60°C @90%RH
2. Test Low Temperature: 0°C
3. Test Time: 24Hours / Cycle
4. Test Cycle: 2 Cycles
5. Test Software: Windows 10 / Run PassMark Rebooter v1.3 Build:1004

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:

Test Method	Actual	Successful	Failure rate	Test Result
Power On/Off	1109/times	1109/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: 12-05~06-2017

Test Site: AAEON Taichung Internal Lab

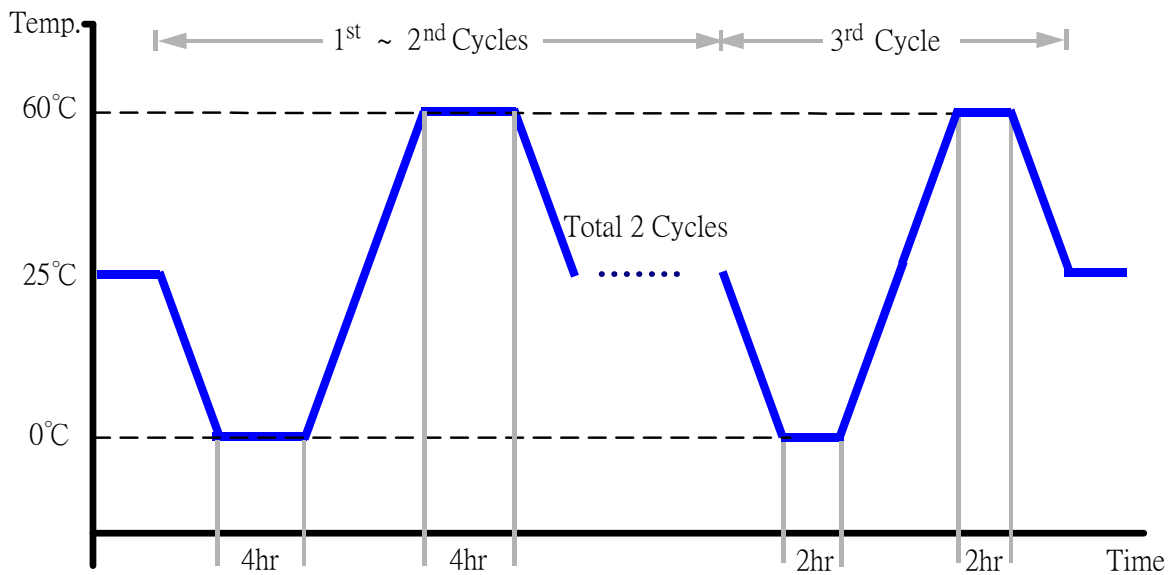
Test Standard: Refer to IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (King Son Technology Co.)
Model: MHK-225NK
Date of Calibration: 02/16/17
Due date of Calibration: 02/17/18
Serial Number: 1000122

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 (3rdcycle)
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: 12-06~07-2017

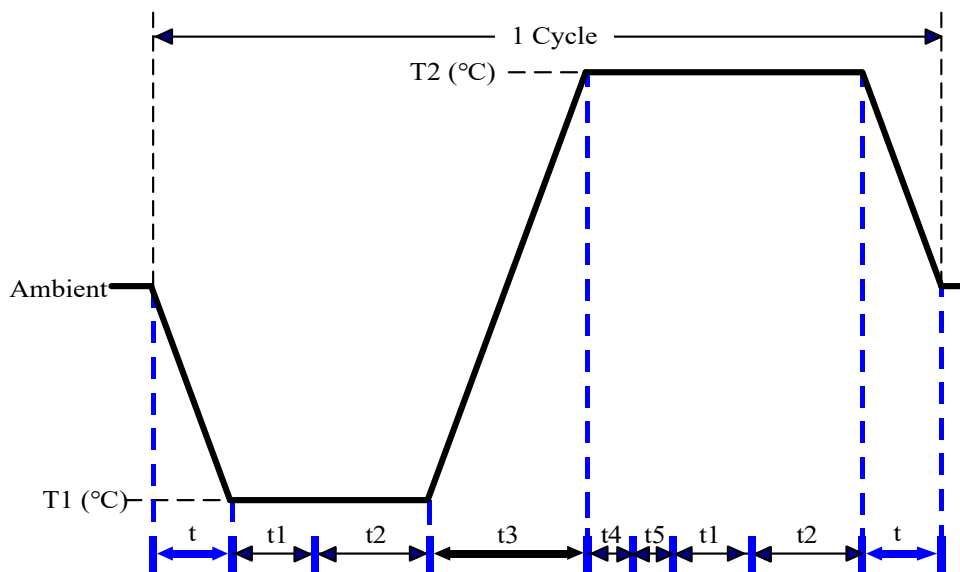
Test Site: AAEON Taichung Internal Lab

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: MHK-225NK
 Date of Calibration: 02/16/17
 Due date of Calibration: 02/17/18
 Serial Number: 1000122

Test Condition:



Parameters	Description
T1	0°C
T2	60°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
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 min / off 5min)
 t3,t4: Run PassMark Burn In Test
 t5: Windows10 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.