



Industrial Computing Platform Partner

ONYX-1722

With 2.5" SATA HDD

Environment Test Report

Report NO: 09P020028

Issued by: Rex-Chang / 10/05/2009
Test Engineer Date

Reviewed by: Wenyuan Yang / 10/05/2009
Manager Date

Test item list

1. <i>Test item list</i> -----	2
2. <i>Temperature cycle operation test</i> -----	3
3. <i>High temperature storage test</i> -----	4
4. <i>Low temperature storage test</i> -----	5
5. <i>Humidity test</i> -----	6
6. <i>Cold start and hot start test</i> -----	7

Test Configuration:

Num	Item	Spec
1.	Panel PC:	ONYX-1722
	1. Main Board	AAEON GENE-9310 Rev. B1.0 (BIOS: GENE-9310 VER: 2.0)
	2. CPU	Intel U7500 / 1.06GHz
	3. LCD	CPT.CLAA170EA07
	4. Inverter	HWAYOUN QF132V.1.16 (S)
	5. Industrial Memory	DSL 1GB / ELPIDA E5108AJBG-6E (DDR2-667)
	6. Industrial SATA HDD	Fujitsu MHZ2080BH / 80GB
	7. Power Board	PER-P17D VER: A1.0
	8. Test Software	Windows XP / Run PassMark Burn In Test 5.1 Pro
	9. Adapter	PROTEK POWER PMP120-14-1316 24V/5.0A 120W MAX

Temperature cycle test

Test Date: 09-23~25-2009

Test Product: ONYX-1722

Test Site: AAEON QA Internal Lab.

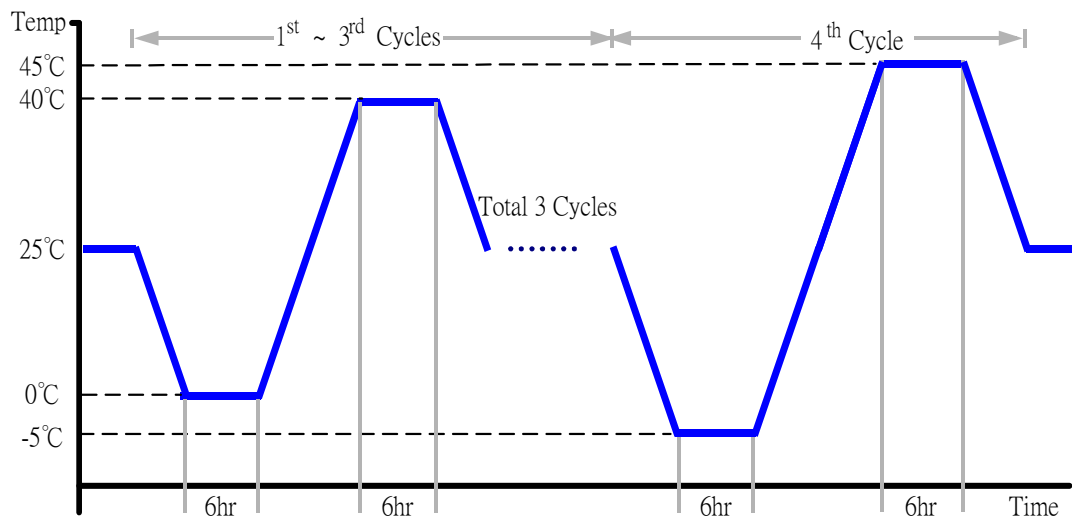
Test Standard: Reference IEC68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 05/07/09
Serial Number: 1241

Test Condition:

1. Test Low Temperature: 0°C (1~3 cycles)
-5°C (4th cycle)
2. Test High Temperature: 40°C (1~3 cycles)
45°C (4th cycle)
3. Test dwell time: 6Hrs
4. Temperature slope: 2°C/min
5. Test cycle: 4 cycles
6. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (ONYX-1722)

Test Result:

No problem was found during the temperature operation cycle test.

Test Date: 09-30-2009~10-02-2009

Test Product: ONYX-1722

Test Site: AAEON QA Internal Lab.

Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4L+-100

Date of Calibration: 05/07/09

Serial Number: 1241

Testing Item:

1. Test Temperature: 60°C
2. Test Times: 48Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (ONYX-1722)

Test Result:

No problem was found after the high temperature storage test.

Low temperature storage test

Test Date: 09-28~30-2009

Test Product: ONYX-1722

Test Site: AAEON QA Internal Lab.

Test Standard: Reference IEC 68-2-1 Testing procedures
Test Ab: Cold Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4L+-100

Date of Calibration: 05/07/09

Serial Number: 1241

Testing Item:

1. Test Temperature: -20°C
2. Test Times: 48Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (ONYX-1722)

Test Result:

No problem was found after the low temperature storage test.

Humidity test

Test Date: 09-25~27-2009

Test Product: ONYX-1722

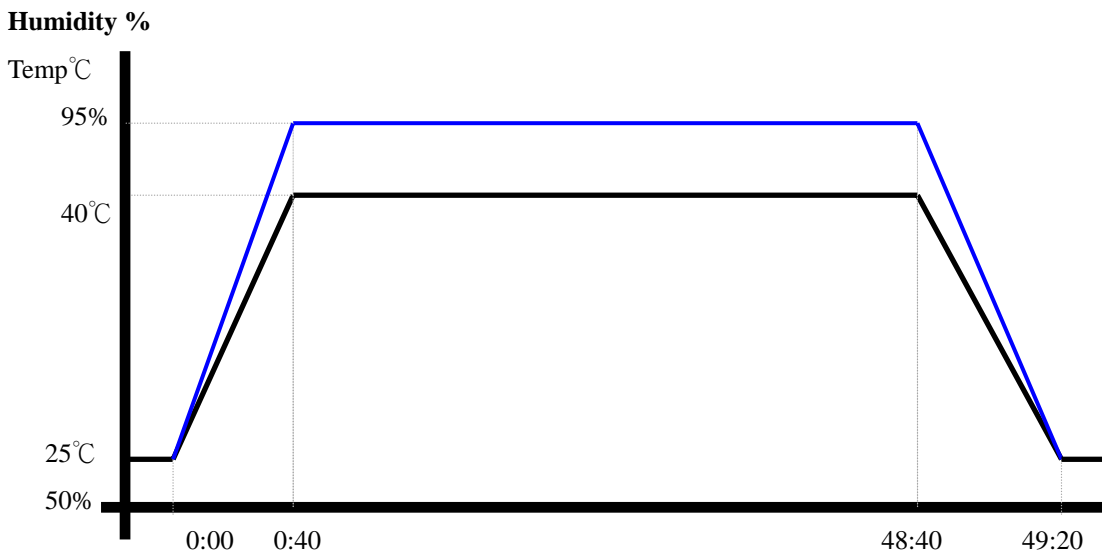
Test Site: AAEON QA Internal Lab.

Test Standard: Reference IEC 68-2-3 Testing procedures
Test Ca: Damp heat, steady state (Non-operation)

Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 05/07/09
Serial Number: 1241

Testing Item:

1. Test Temperature: 40°C
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
5. Test Environment Curve:



Sample Configuration & Quantity Under Test:
Quantity: 1 (ONYX-1722)

Test Result:
No problem was found after the humidity storage test.

Cold start and hot start test

Test Date: 09-22~23-2009

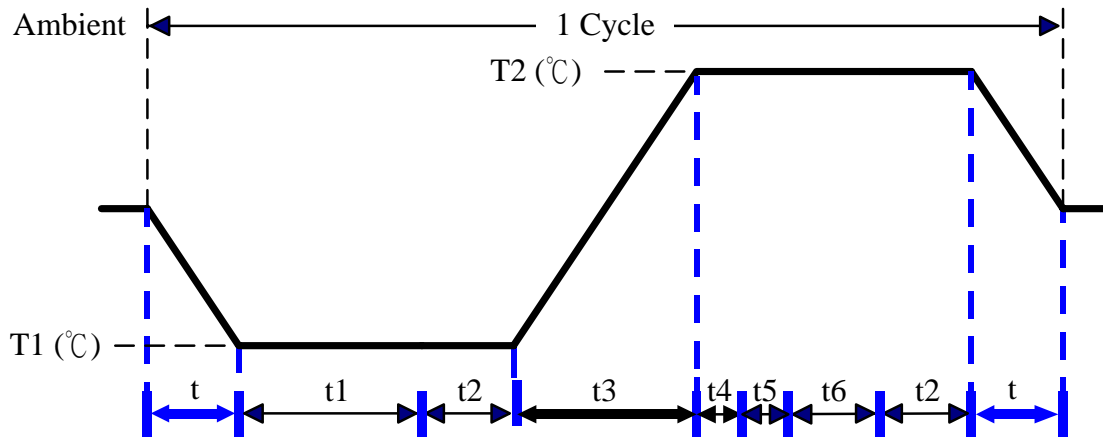
Test Product: ONYX-1722

Test Site: AAEON QA Internal Lab.

Test Standard: Reference 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-D4L+-100
Date of Calibration: 05/07/09
Serial Number: 1241

Test Condition:



Parameters	Description
T1	-5°C
T2	45°C
t1	4 hrs
t2, t6	2 hrs
t4, t5	1 hrs
t, t3	2°C/min
n (Cycle)	1

t = temperature slope
t, t1, t6: Power Off
t2: Power on/off test 10 times (on 2 min / off 5min)
t3, t4: Run PassMark Burn In Test
t5: Win XP Software restart test 3 times
Test Software: Windows XP

Test Result:

- a. No problem was found during the cold start test.
- b. No problem was found during the hot start test.