



Onyx-152

Environment Test Report

Report NO : 03P020019

Issued by:

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09/22 /2003

Rex Chang
Test Engineer

Date

Reviewed by:

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09/22/2003

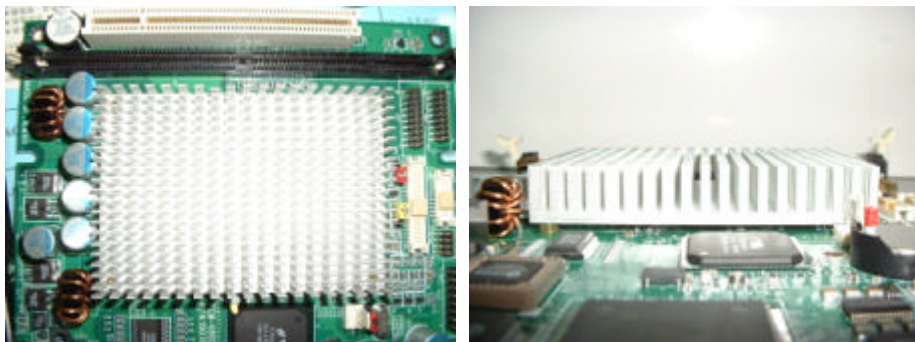
Wayne Chen
A.V.P

Date

1. <i>Test item list</i> -----	2
2. <i>Temperature cycle operation test</i> -----	3
3. <i>High temperature / Humidity storage test</i> -----	5
4. <i>Low temperature storage test</i> -----	6
5. <i>Humidity test</i> -----	7
6. <i>Cold start test</i> -----	8

Num	Item	Spec
1.	Control Box :	Onyx-152(PCM-6892)
	1. CPU	Onboard VIA Eden 667MHz
	2. Memory	NEC D45128841G5-A75-9JF PC133 SDRAM 128MB
	3. Heat Sink	M166892000
	4. HDD	IBM Travelstar™ IC25N020ATCS04-0 20GB
	5. Power	ARTESYN NLP110M
2.	6. LCD	15" AU M150XN05
	7. Inverter	SUMIDA IV25185/T

Heat Sink



Onyx-152

Test Date: 09-15~17-2003

Test Product: Onyx-152 15" LCD PC.

Test Site: AAEON DV Internal Lab.

Performed By : Rex Chang

Test Standard :

Reference IEC 68-2-61 Testing procedures
Test Z/ABD : Climatic Sequence Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model : THS-D4H+-100
Date of Calibration : 06/03/03
Serial Number: 1241

Temperature Measurement :

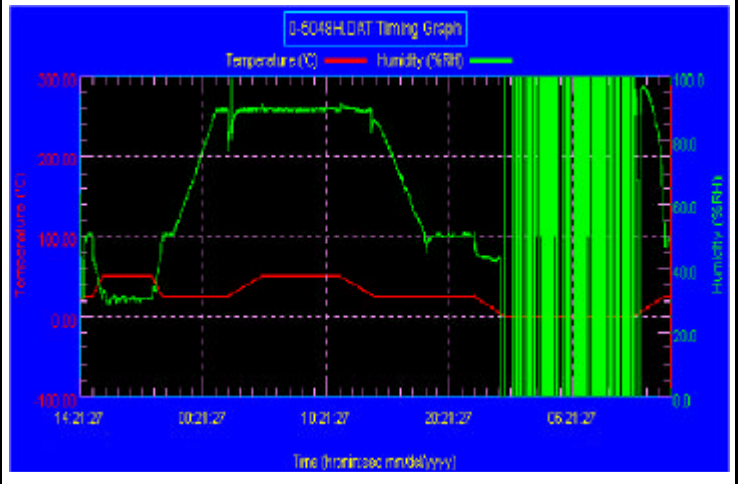
20 Channel Thermal Recorder:
YOKOGAWA Inc,
Model : DA100-13-1D
Date of Calibration : 01/03/03
Serial Number: 12A323190

Temperature & Humidity Cycle Test:

Testing Specification

Step	Temperature ()	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
3	50	30	00:50
4	50	30	04:00
5	25	50	00:50
6	25	50	00:50
7	25	90	03:30
8	25	90	01:00
9	50	90	02:46
10	50	90	06:21
11	25	90	02:46
12	25	50	04:07
13	25	50	03:30
14	25	50	00:30
15	0	0	02:30
16	0	0	10:30
17	25	50	02:30
18	25	50	00:30

Test Curve:



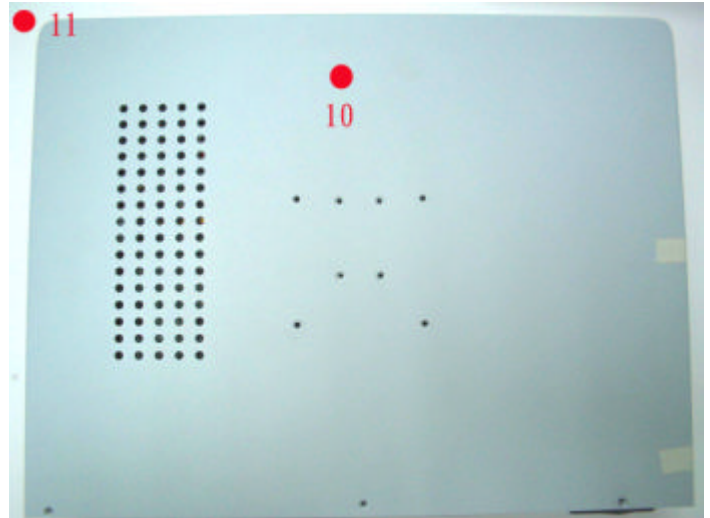
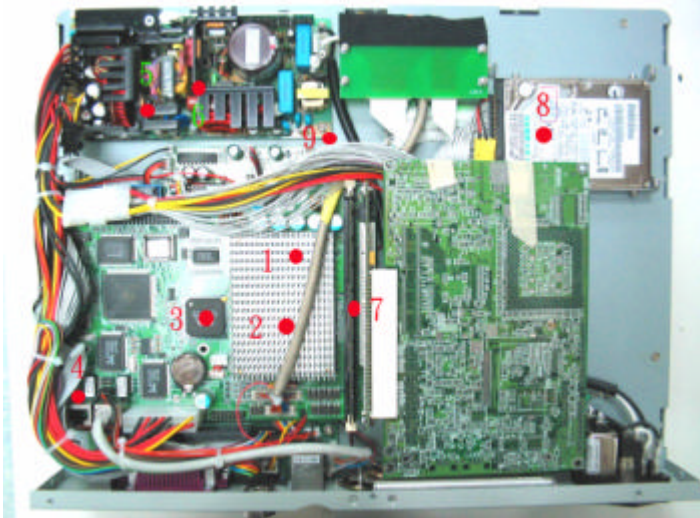
Sample Configuration & Quantity Under Test:

Using one Onyx-152 15" LCD PC.

Onyx-152

Temperature Recorder:

Measuring Accelerometer Position:



Note : 1.Dummy load : 5V/1A(5W);12V/0.5A(6W) x 1 pcs

Thermal profile data :

Onyx-152 15" LCD PC

Point	Temp. Stage		
	50	25	0
1. CPU	87.6	63.1	37.6
2. VIA VT8686T Chipset	89.0	64.4	38.9
3. VIA VT82C686B Chipset	71.4	45.1	17.9
4. AC97 Audio Codec	69.5	45.1	20.1
5. Power - Heat Sink (1)	85.4	61.3	35.7
6. Power - Heat Sink (2)	95.2	70.9	46.5
7. Memory	83.1	58.6	32.9
8. HDD Surface	65.2	42.0	18.2
9. Inside Air Temperature	70.8	46.0	19.7
10. Control Box. External Surface	58.3	33.4	8.0
11. Chamber Air Temperature	50.6	25.7	0.7

Sample Configuration & Quantity Under Test:

Quantity: 1 (Onyx-152 15" LCD PC)

Test Result :

Passed.

The Onyx-152 15" LCD Panel PC meets temperature cycle test.

Onyx-152**Test Date:** 09-10~12-2003**Test Product:** The Onyx-152 15" LCD PC.**Test Site:** AAEON DV Internal Lab.**Performed By :** Rex Chang**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 : 10/28/02

Serial Number: 2582

Testing Item:

1. Test Temperature: 60
2. Test Times: 48Hrs
3. Test Software: Windows media Player (Video test soft-MPEG form HDD)
4. Test Environment Curve:

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (Onyx-152 15" LCD PC)

Test Result:**Passed.**

The Onyx-152 15" LCD PC meets High temperature storage test.

Onyx-152**Test Date:** 09-12~15-2003**Test Product:** Onyx-152 15" LCD PC.**Test Site:** AAEON DV Internal Lab.**Performed By :** Rex Chang**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-D4H+-100

Date of Calibration : 10/28/02

Serial Number: 2582

Testing Item:

1. Test Temperature : -20
2. Test Times : 48Hrs
3. Test Software : Windows media Player (Video test soft-MPEG form HDD)
4. Test Environment Curve :

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (Onyx-152 15" LCD PC)

Test Result:**Passed.**

The Onyx-152 15" LCD PC meets Low temperature storage test

Onyx-152**Test Date:** 09-18~21-2003**Test Product:** Onyx-152 15" LCD PC.**Test Site:** AAEON DV Internal Lab.**Performed By :** Rex Chang**Test Standard :** Reference IEC 68-2-30 Testing procedures
Test Db : Humidity test (Non-operation)**Test Equipment:**

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

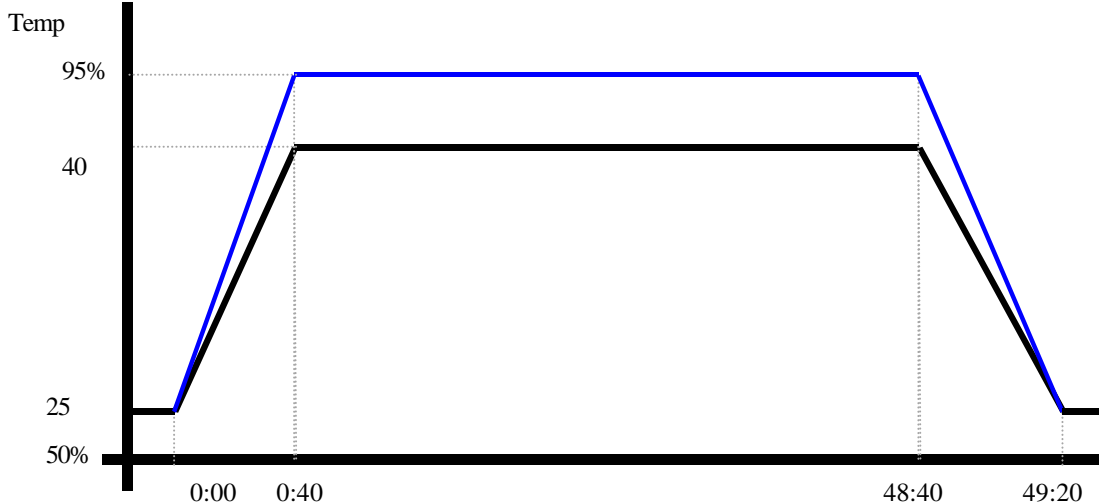
Model : THS-D4H+-100

Date of Calibration : 06/03/03

Serial Number: 1241

Testing Item:

1. Test Temperature: 40
2. Test Humidity : 95%RH
3. Test Times: 48Hrs
4. Test Software : Windows media Player (Video test soft-MPEG form HDD)
5. Test Environment Curve:

Humidity %**Sample Configuration & Quantity Under Test:**

Quantity: 1 (Onyx-152 15" LCD PC)

Test Result:**Passed.**

The Onyx-152 15" LCD PC meets Humidity test

Onyx-152

Test Date: 09-17-2003

Test Product: Onyx-152 15" LCD PC.

Test Site: AAEON DV Internal Lab.

Performed By : Rex Chang

Test Standard : Reference IEC 68-2-1 Testing procedures
Test Ab : Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

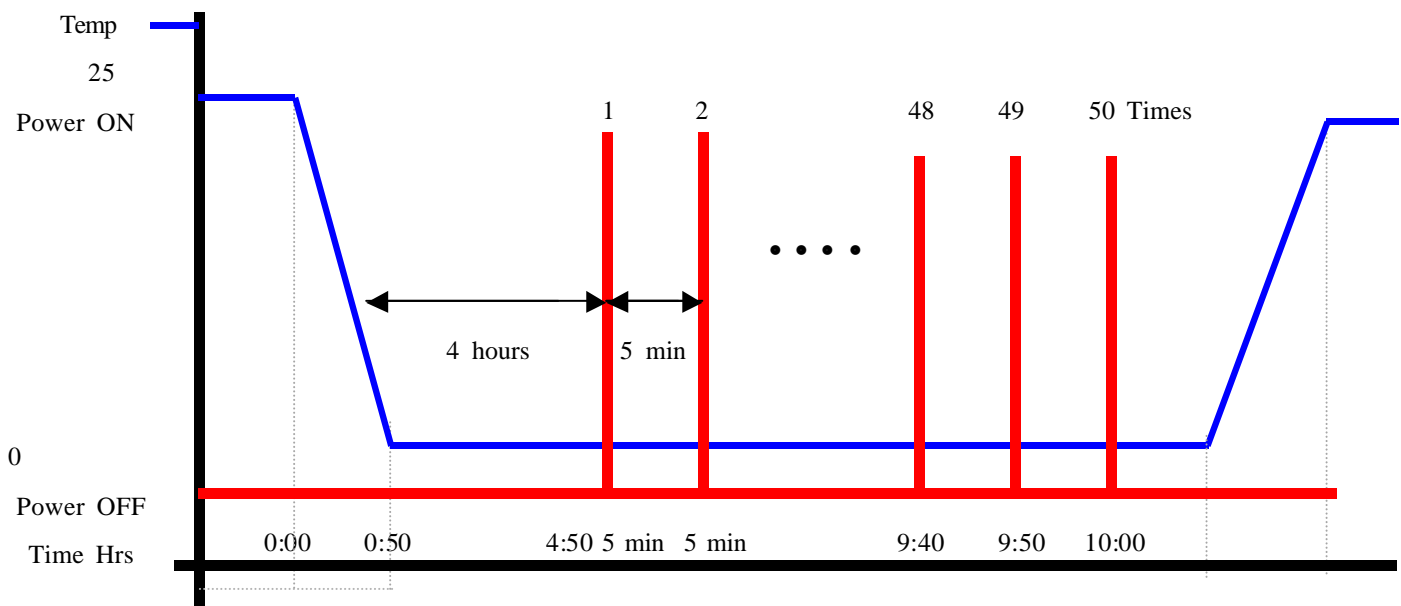
Model : THS-D4H+-100

Date of Calibration : 06/03/03

Serial Number: 1241

Test Condition :

1. Test Temperature : 0
2. Test Times : 5 Hours or 50 times of ON/OFF
 - (1) Power off for 4 hours before 1' st power on. Then once complete boot, power off immediately .
 - (2) After 5 min later power on again and wait until booting is completed.
 - (3) Repeat (2) for around 4:50
 - (4) Power off then wait for 5 min before final power on operation.
3. Number of test : 50 times
4. Test Software : Windows XP
5. Test Environment Curve :



Onyx-152

Sample Configuration & Quantity Under Test:

Quantity:1 (Onyx-152 15" LCD PC)

Test Result:

Passed.

The Onyx-152 15" LCD PC meets Cold start test