



*Industrial Computing Platform Partner*

# **HSB-668I**

## **Temperature cycle Test Report**

**Report NO: 06I020001**

Issued by:

***Ryan Cheng*** /

***01/03/2006***

\_\_\_\_\_  
Test Engineer

\_\_\_\_\_  
Date

Reviewed by:

***Wenyuan Yang*** /

***01/03/2006***

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Manager

\_\_\_\_\_  
Date

# Temperature cycle test

**Test Date:** 12-30-2005~01-03-2006

**Test Product:** HSB-668I (ATX Power) Rev: A0.2

**Test Site:** AAEON QA Internal Lab.

**Performed By:** Ryan Cheng

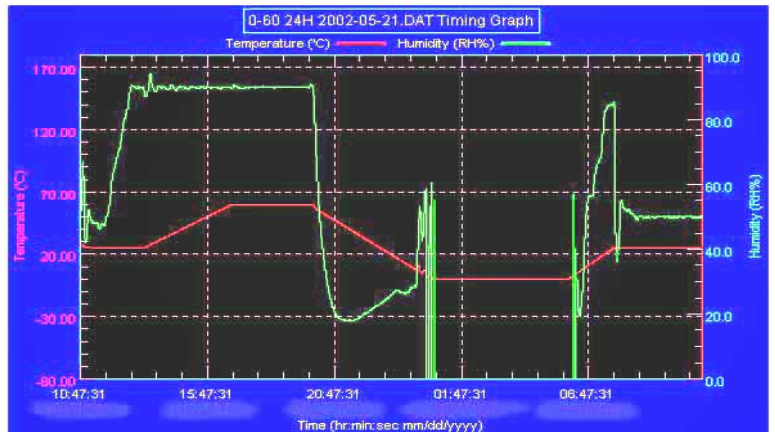
**Test Standard:** Reference IEC 68-2-30 Testing procedures  
 Test DB: Damp Heat Test  
 Reference IEC 68-2-61 Testing procedures  
 Test Z/ABD: Climatic Sequence Test

**Test Equipment:**  
 Programmable Temperature & Humidity Chamber  
 K.SON. INS. TECH. CORP.  
 Model: THS-D7S-100+1 N2  
 Date of Calibration: 12/14/05  
 Serial Number: 3898

**Temperature & Humidity Power On/Off Test:  
 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

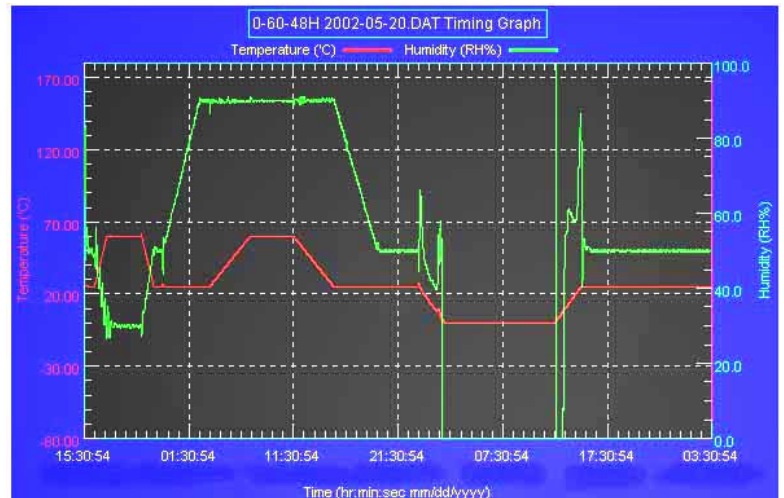
**Test Curve:**



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 Testing Specification**

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1	25	50	00:30
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3	60	30	01:10
4	60	30	03:20
5	25	50	01:10
6	25	50	00:50
7	25	90	03:30
8	25	90	01:00
9	60	90	03:53
10	60	90	04:07
11	25	90	03:53
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

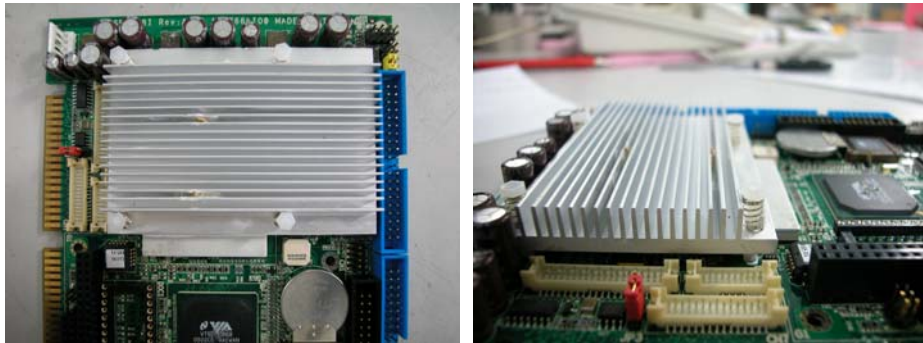
**Test Curve:**



**Sample Configuration & Quantity Under Test:**

# Temperature cycle test

1. CPU: Onboard VIA Mark C3 533AMHz CPU (Bios Ver.0.6)
2. SDRAM: Onboard memory 128MB
3. Chipset: Mark + VT82C686B
4. VGA: Integrated on Mark, 32MB frame buffer share system memory
5. LAN: Realtek RTL 8100C 10/100 Base-T Fast Ethernet \* 2
6. DOM: PQI Disk On Module 16MB
7. HDD: Maxtor Fireball 3 ATA/133 40GB
8. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0
9. Backplane: BP-214SG-P4 REV.A1.1
10. ATX Power Supply: UPF300-AF
11. Heat Sink:



## Test Result:

### 1. Temperature & Humidity Power On/Off Test:

The system **failed one time at 60°C**.

Test Method	Actual	Successful	Failure rate	On time	Off Time
Power On/Off	1340/times	1339/times	<b>0.1 %</b>	33 Sec.	33 Sec.

### 2. Temperature & Humidity Cycle Test:

No problem was found during the temperature/ humidity cycle test.