PFM-550S

Temperature cycle Test Report

Report NO: **06E020004**

Issued by:	***Ryan Cheng***	/	***01/12/2006***
	Test Engineer		**Date**
Reviewed by:	***Wenyuan Yang***	/	***01/12/2006***
	Manager		**Date**

Temperature cycle test

Test Date: 01-09~12-2005

Test Product: PFM-550S (AT Power) Rev: A1.0

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

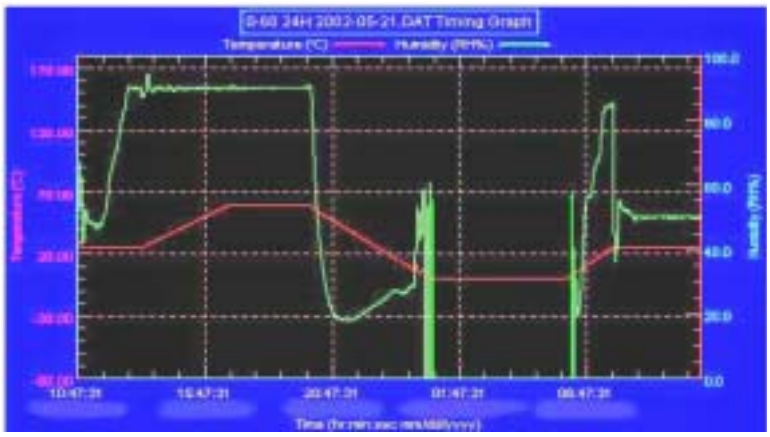
Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-A4C-100
Date of Calibration: 05/23/05
Serial Number: 3188

Temperature & Humidity Power On/Off Test:

Testing Specification:

Step	Temperature (℃)	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:



Temperature & Humidity Cycle Test:

Testing Specification

Step	Temperature (℃)	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
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:

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

Temperature cycle test

Sample Configuration & Quantity Under Test:

1. CPU: On Board VIA Mark CPU – 533MHz (BIOS: 0.3)
2. SDRAM: Transcend 128MB PC-133 SDRAM (SO-DIMM)
3. Chipset: VIA VT82C686B
4. VGA: VIA VT8606 (Share memory up to 32)
5. LAN: Realtek RTL8100BL
6. CFD: SanDisk 32MB
7. HDD: Seagate ST320413A 20GB
8. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0
9. AT Power Supply: Enhance ENT-1815 150W
10. Heat Sink:

Test Result:

1. **Temperature & Humidity Power On/Off Test:**
   No problem was found during the Temperature & Humidity Power On/Off Test.
2. **Temperature & Humidity Cycle Test:**
   No problem was found during the Temperature & Humidity Cycle Test.

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High temperature operation test

Test Date: 01-09~07~08-2005

Test Product: PFM-550S (AT Power) Rev: A1.0

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bd: Dry Heat Test (Operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-A4C-100
Date of Calibration: 05/23/05
Serial Number: 3188

Temperature Measurement:

DER EE 2 Channel Digital Thermometer
Model: DE-3004 TYPE K
Date of Calibration: 09/15/05
Serial Number: E0005039

Testing Item:

1. Test Temperature: 60℃
2. Test Times: 24Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0
4. Test Environment Curve:

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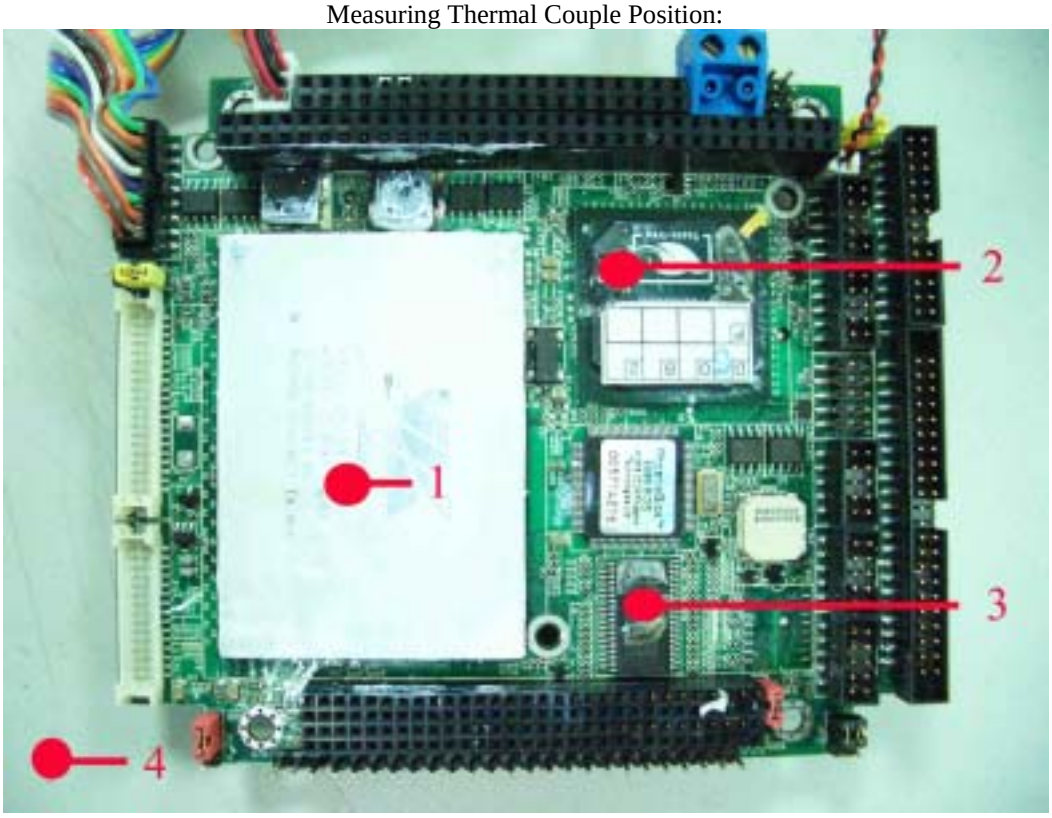
High temperature operation test

Temperature Recorder:

Measuring Thermal Couple Position:



Thermal profile data:

PFM-550S A1.0

Point / Temp.	Room Temp.	Chamber 25℃	Chamber 60℃	Spec.
1. Mark CPU – 533MHz	69℃ / 68℃	45℃ / 43℃	82℃ / 80℃	100℃
2. South bridge	68℃ / 67℃	45℃ / 43℃	81℃ / 79℃	85℃
3. CLK Generator	76℃ / 75℃	53℃ / 51℃	89℃ / 87℃	115℃
4. Air Temp.	26℃ / 25℃	27℃ / 25℃	62℃ / 60℃	N/A

Note: The description in red states which temperature is over the specification of the device.

Sample Configuration & Quantity Under Test:

Quantity: 1 (PFM-550S)

Test Result:

No problem was found during the high temperature operation test.

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