



*Industrial Computing Platform Partner*

# **PFM-P01A**

## **Temperature Variation Test Report**

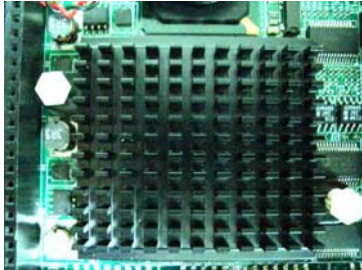

**Report NO: 07E020016**

Issued by: **Rex Chang** / **04/09/2007**  
\_\_\_\_\_  
Test Engineer Date

Reviewed by: **Wenyuan Yang** / **04/09/2007**  
\_\_\_\_\_  
Manager Date

# Test item list

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| 1. <i>Test item list</i> -----                       | 2 |
| 2. <i>Temperature variation operation test</i> ----- | 3 |
| 3. <i>Cold start and hot start test</i> -----        | 4 |

| Sample Configuration & Quantity Under Test:   |
|---|
| <ol style="list-style-type: none"> <li>1. PFM-P01A A1.0</li> <li>2. D-Link DES-1316 POE Switch</li> </ol>   |
| <p><b>Sample 1: PFM-540I A1.0 for Temp./humidity cycle test</b></p> <ol style="list-style-type: none"> <li>a. CPU: AMD Geode LX800 (BIOS: 1.0)</li> <li>b. SDRAM: Kingston 256MB / NANYA NT5DS16M16CT-6K (SO-DDR333)</li> <li>c. Chipset: AMD LX + CS5536</li> <li>d. VGA: Integrated in AMD LX</li> <li>e. CFD: Transcend 2GB</li> <li>f. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0</li> <li>g. Heat Sink:</li> </ol> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |

**Test Date:** 04-06~07-2007

**Test Product:** PFM-P01A A1.0 + PFM-540I A1.0

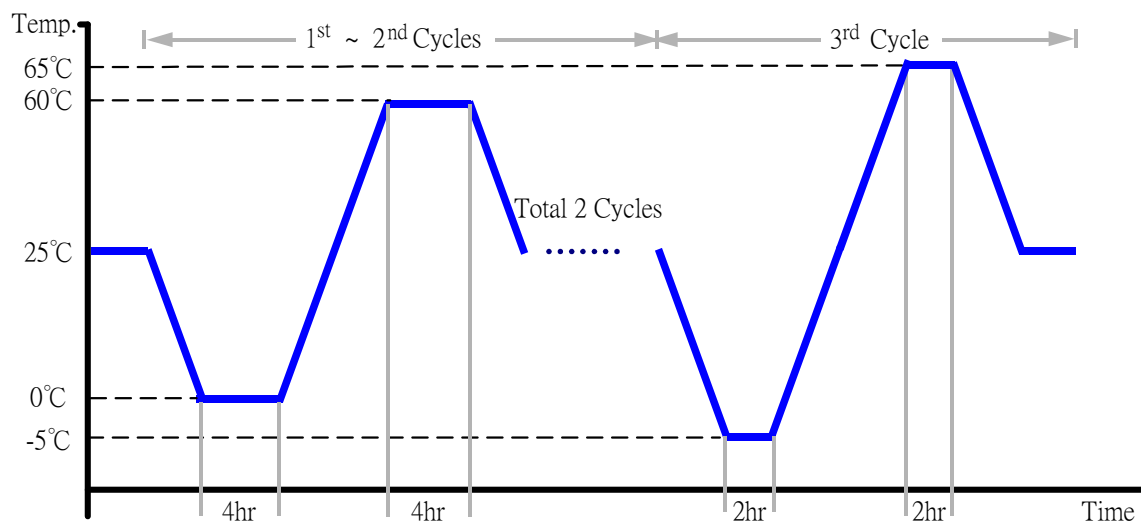
**Test Site:** AAEON QA Internal Lab.

**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: 11/17/06  
Serial Number: 2582

### Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0°C (1~2 cycles)  
-5°C (3<sup>rd</sup> cycle)
2. Test High Temperature: 60°C (1~3 cycles)  
65°C (3<sup>rd</sup> cycle)
3. Test dwell time: 4Hrs (1~2 cycles)  
2Hrs (3<sup>rd</sup> cycle)
4. Temperature slope: 2°C/min
5. Test cycle: 3 cycles
6. Test Environment Curve:



### Test Result:

No problem was found during the Temperature & Humidity Cycle Test.

# Cold start and hot start test

**Test Date:** 04-03~04-2007

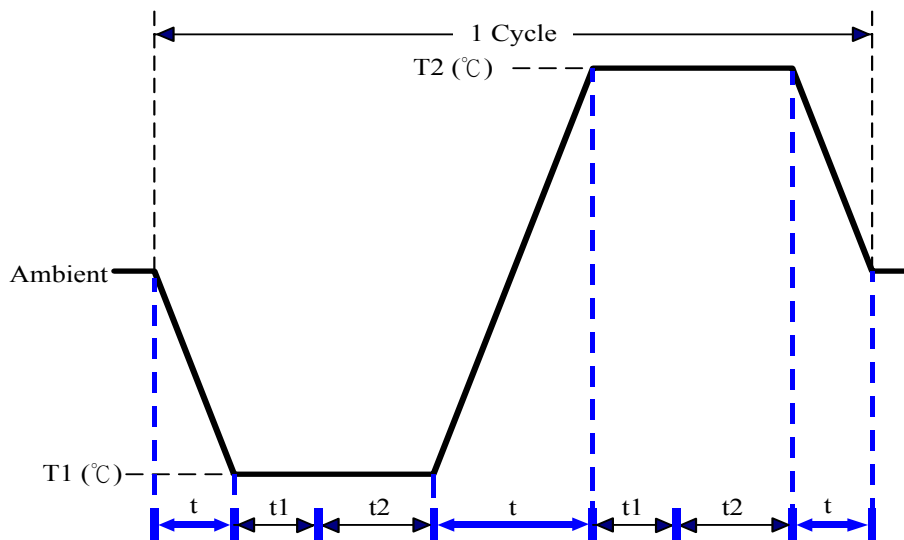
**Test Product:** PFM-P01A A1.0 + PFM-540I A1.0

**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: 11/17/06  
Serial Number: 2582

**Test Condition:**



| Parameters | Description |
|------------|-------------|
| T1         | -5°C        |
| T2         | 65°C        |
| t1         | 1 hrs       |
| t2         | 2 hrs       |
| t          | 2°C/min     |
| n (Cycle)  | 1           |

t = temperature slope  
t ~ t1: Power Off  
t2: Power on/off test 10 times (on 2 min / off 5min)  
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.