



*Industrial Computing Platform Partner*

# **PFM-C20N**

(PC/104)

## **Temperature Variation Test Report**

**Report NO: 09E020023**

Issued by:

**Rex Chang**

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**05/27/2009**

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

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Date

Reviewed by:

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**05/27/2009**

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Manager

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Date

# Test item list

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## Test Product: PFM-C20N + EPIC-8526

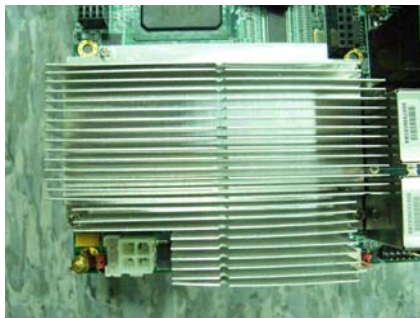
### Sample Configuration & Quantity Under Test:

#### Test Sample: PFM-C20N A1.0

1. CAN Chipset: SJA1000T
2. Transfer Chipset: ITE8888

#### Test System: EPIC-8526 A0.4

1. CPU: Intel Celeron M 1.0GHz (Bios Ver.1.1)
2. Chipset: Intel 852GM + ICH4
3. VGA: Intel 852GM
4. Memory: DSL 512MB / ELPIDA D5116AFTA-6B-E (DDR333)
5. 2.5" IDE HDD: Fujitsu MHT2020AT / 20GB
6. Test Software: Windows XP / Run Canbus WinXP2-Burn
7. AT Power Supply: Zippy SP2-4300F
8. Heat Sink:



**Test Date:** 05-25~26-2009

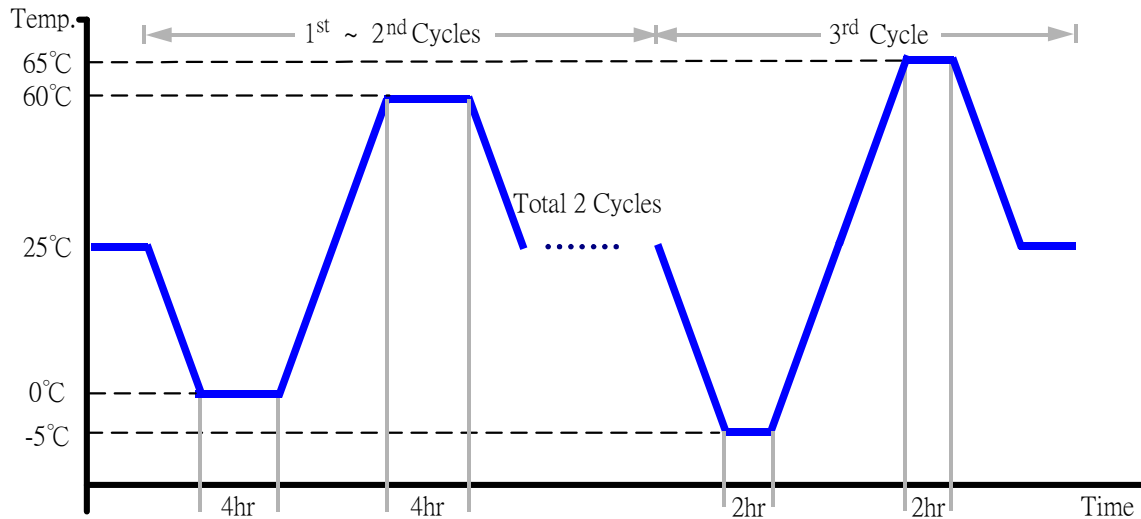
**Test Site:** AAEON QA Internal Lab.

**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-D7S-100+1 N2  
Date of Calibration: 12/13/08  
Serial Number: 3898

### 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 (1~2 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 variation operation test.

# Cold start and hot start test

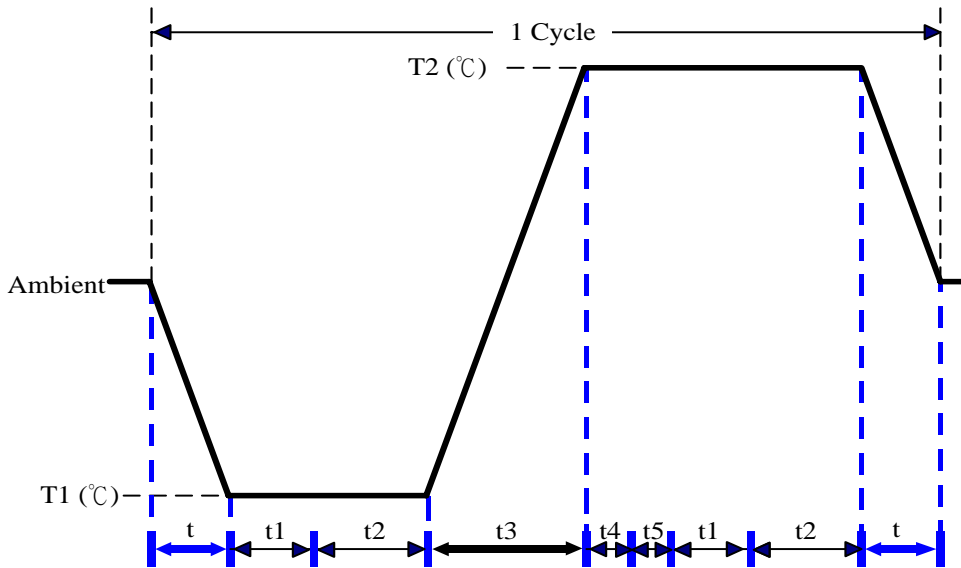
**Test Date:** 05-27-2009

**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  
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Model: THS-D7S-100+1 N2  
Date of Calibration: 12/13/08  
Serial Number: 3898

**Test Condition:**



Parameters	Description
T1	-5°C
T2	65°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t,t3 = temprature slope  
t, t1: Power Off  
t2: Power on/off test 10 times (on 2 min / off 5min)  
t3,t4: Run Canbus Burning Test  
t5: Win XP Software restart test 2 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.