



Industrial Computing Platform Partner

PER-C20N

Temperature Variation Test Report

Report NO: 09E020003

Issued by: Rex Chang / 01/13/2009
Test Engineer Date

Reviewed by: Wenyuan Yang / 01/13/2009
Manager Date

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Test Product: PER-C20N + GENE-5315

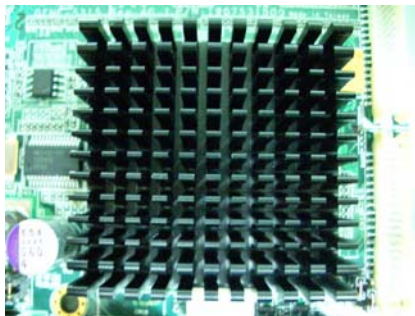
Sample Configuration & Quantity Under Test:

Test Sample: PER-C20N A0.1

1. CAN Chipset: SJA1000
2. Transfer Chipset: ITE8888

Test System: GENE-5315 B1.0

1. CPU: Onboard AMD Geode LX 800 / 500MHz (Bios Ver. 2.0)
2. Chipset: AMD LX series + CS5536
3. VGA: AMD Geode LX 800 integrated graphic
4. Memory: Transcend 512MB / V58C2256804SCS5 / DDR-333
5. HDD: Western Digital WD800BB / 40GGB
6. Test Software: Windows XP / Run Canbus Burning Test
7. AT Power Supply: Zippy SP2-4300F
8. Heat Sink:



Test Date: 01-09~10-2009

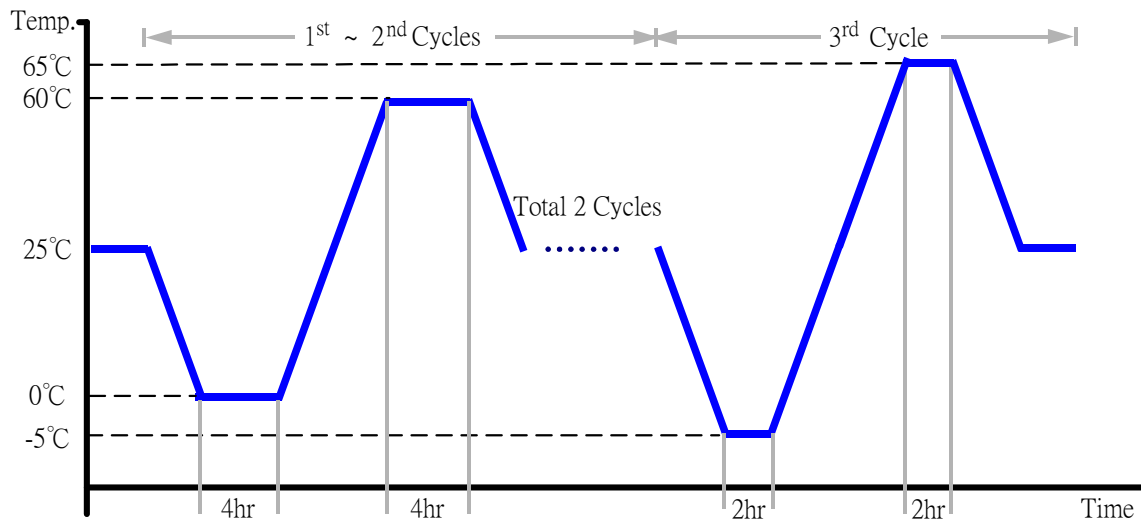
Test Site: AAEON QA Internal Lab.

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-B6T-150+LN2
Date of Calibration: 04/17/08
Serial Number: 6488KT

Temperature & Humidity Cycle Test:

1. Test Low Temperature: 0°C (1~2 cycles)
-5°C (3rd cycle)
2. Test High Temperature: 60°C (1~3 cycles)
65°C (3rd cycle)
3. Test dwell time: 4Hrs (1~2 cycles)
2Hrs (3rd 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

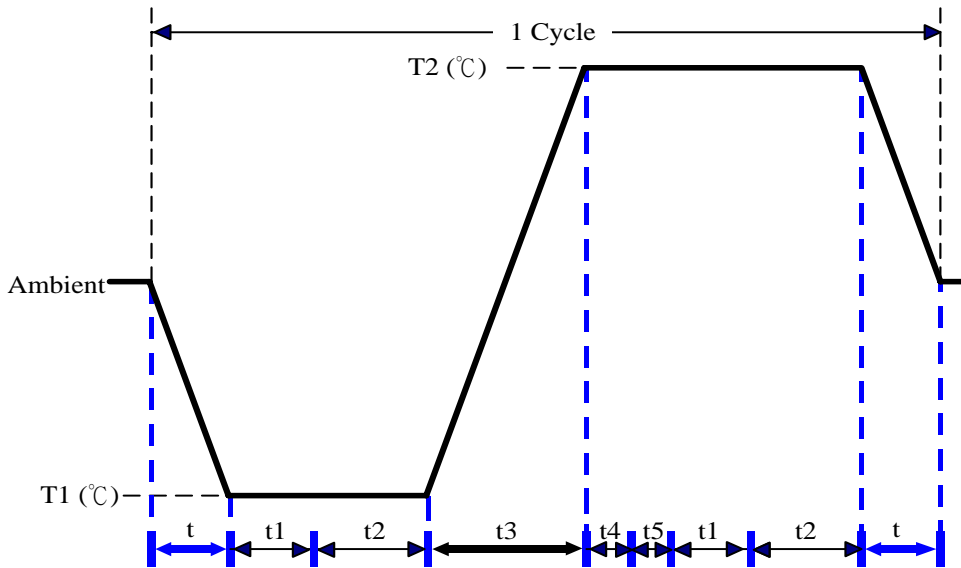
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Test Condition:



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.