



*Industrial Computing Platform Partner*

# **PER-C35L**

## **Environment Test Report**

**Report NO: 09I020037**

Issued by: **Rex Chang** / **12/15/2009**  
\_\_\_\_\_ / \_\_\_\_\_  
**Test Engineer** **Date**

Reviewed by: **Wenyuan Yang** / **12/15/2009**  
\_\_\_\_\_ / \_\_\_\_\_  
**Manager** **Date**

# Test item list

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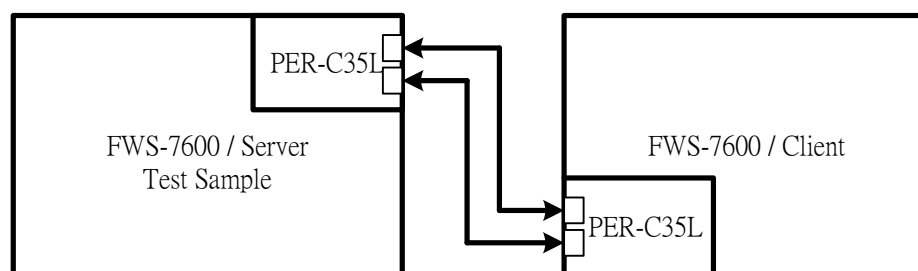
## Test Configuration:

### Server (Test Sample):

Num	Item	Spec
1.	PCI-Express 10G Ethernet Module	PER-C35L A0.1
2.	Control Box:	FWS-7600
	1. Main Board	AAEON FWB-7600 Rev. A1.0 (BIOS: 1.0)
	2. CPU	Intel Xeon 3210 / 2.13GHz / LGA775
	3. Memory	Transcend 2GB * 2 / Micron 7KE22D9HNL
	5. SATA HDD	HITACHI HDP725025GLA380 / 250GB
	6. Test Software	Windows 2003 / Ping Ethernet to client
	7. Power Supply	Zippy P1A-6301P

### Client:

Num	Item	Spec
1.	PCI-Express 10G Ethernet Module	PER-C35L A0.1
2.	Control Box:	FWS-7600
	1. Main Board	AAEON FWB-7600 Rev. A1.0 (BIOS: 1.0)
	2. CPU	Intel Celeron D 440 / 2.0GHz / LGA775
	3. Memory	Transcend 2GB * 2 / SEC K4T1G084QQ
	5. SATA HDD	Western Digital WD800JD-00LSA0 / 80GB
	6. Test Software	Windows 2003 / Ping Ethernet to server
	7. Power Supply	Zippy P1A-6301P



**Test Date:** 12-11~14-2009

**Test Product:** PER-C35L + FWS-7600

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

**Performed By:** Rex Chang

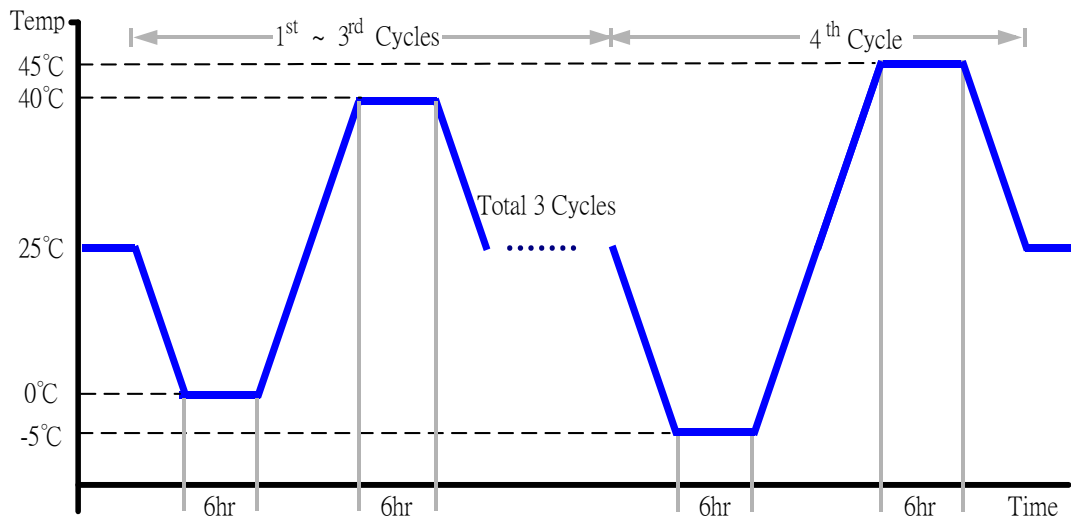
**Test Standard:** Reference IEC68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber  
K.SON. INS. TECH. CORP.  
Model: THS-D4L+-100  
Date of Calibration: 11/21/05  
Serial Number: 2582

**Test Condition:**

1. Test Low Temperature: 0°C (1~3 cycles)  
-5°C (4<sup>th</sup> cycle)
2. Test High Temperature: 40°C (1~3 cycles)  
45°C (4<sup>th</sup> cycle)
3. Test dwell time: 6Hrs
4. Temperature slope: 2°C/min
5. Test cycle: 4 cycles
6. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (PER-C35L + FWS-7600)

**Test Result:**

No problem was found during the temperature operation cycle test.

# Cold start and hot start test

**Test Date:** 12-10~11-2009

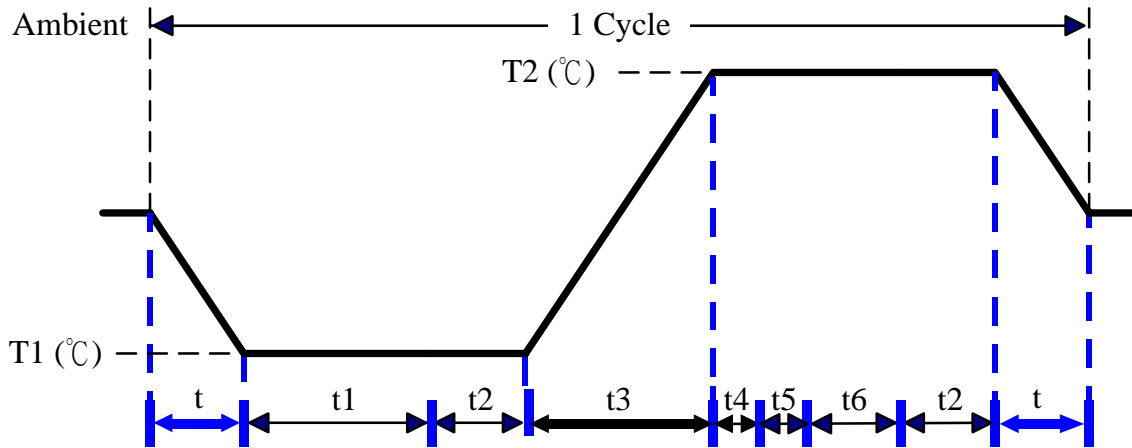
**Test Product:** PER-C35L + FWS-7600

**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: 12/14/06  
Serial Number: 3898

**Test Condition:**



Parameters	Description
T1	-5°C
T2	45°C
t1	4 hrs
t2, t6	2 hrs
t4, t5	1hrs
t, t3	2°C/min
n (Cycle)	1

t = temprature slope  
t , t1, t6: Power Off  
t2: Power on/off test 10 times (on 2 min / off 5min)  
t3, t4: Ping Ethernet from client  
t5: Win 2003 Software restart test 3 times  
Test Software: Windows 2003

**Test Result:**

- a. No problem was found during the cold start test.
- b. No problem was found during the hot start test.