



**Computing Platform Service Partner**

# AGP-3175

## Environment Test Report

Report NO: 10P020016

Summary	<p><input checked="" type="checkbox"/> <b>Pass</b></p> <p><input type="checkbox"/> <b>Fail</b></p> <p>Note : There is/are ____ defect(s) not list in the report, please check it in the DTS Website.</p> <p><input type="checkbox"/> <b>Pass with Deviation</b></p> <p>Comment: _____</p>
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Issue date

2010-10-27

Approval

Jansin Lee

Test Engineer

Rex Chang

# Test item list

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## Testing Result

Num	Test item list	Result	Remark
1	Temperature rise test	Pass	
2	Temperature cycle operation test	Pass	
3	High temperature storage test	Pass	
4	Low temperature storage test	Pass	
5	Temperature variation operation test	Pass	
6	Cold start and hot start test	Pass	

# Configuration of EUT

Num	Item	Spec
1.	<b>Panel PC:</b>	AGP-3175
	1. Main Board	IMBI-QM57 Rev A1.0 (BIOS 1.0)
	2. CPU	Intel® Celeron® Processor P4500 (2M Cache, 1.86 GHz)
	3. Memory	DSL 1066 1GB – DDR3 – ELPIDA J1108BDSE-DJ-F
	4. 3.5" SATA H.D	Seagate 250GB – ST3250318AS
	5. Test Software	Windows XP / Run PassMark Burn In Test 5.1 Pro
2.	<b>ATX Power Supply</b>	Enhance ENP-7025B /250W

## Heat Sink



# Temperature rise test

**Test Date:** 10-22~10-26-2010

**Test Product:** AGP-3175

**Test Site:** AAEON Internal Lab.

**Test Standard:** Reference EN 61131-2(94), UL508 (94)

**Temperature Measurement:**

40 Channel Thermal Recorder:  
YOKOGAWA Inc,  
Model: DA100-13-1D  
Date of Calibration: 12/08/09  
Serial Number: 12A323190

**Test Condition:**

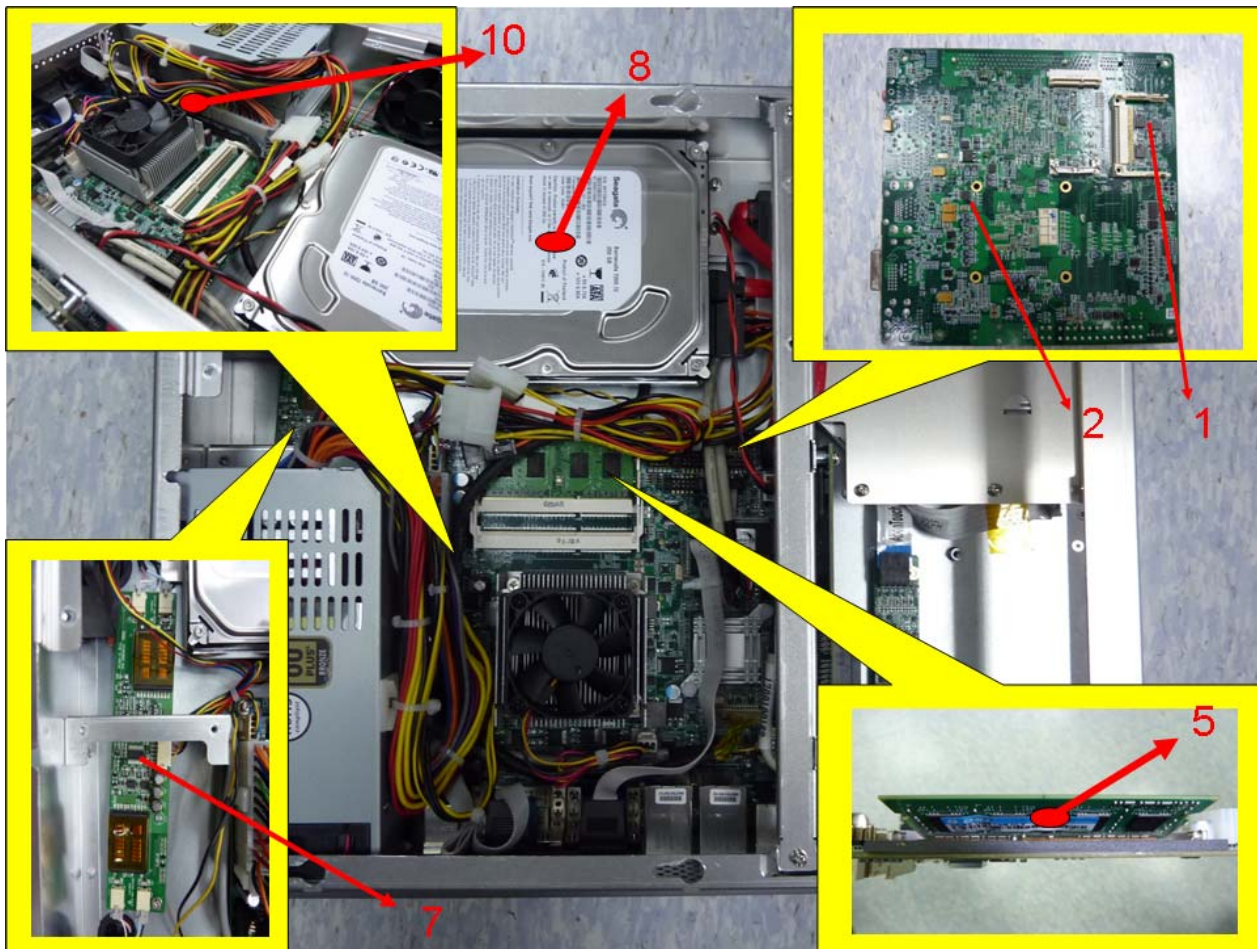
Ambient temperature: 50°C  
Continuous running till thermal stability (within less than 1°C)

**Test Software:**

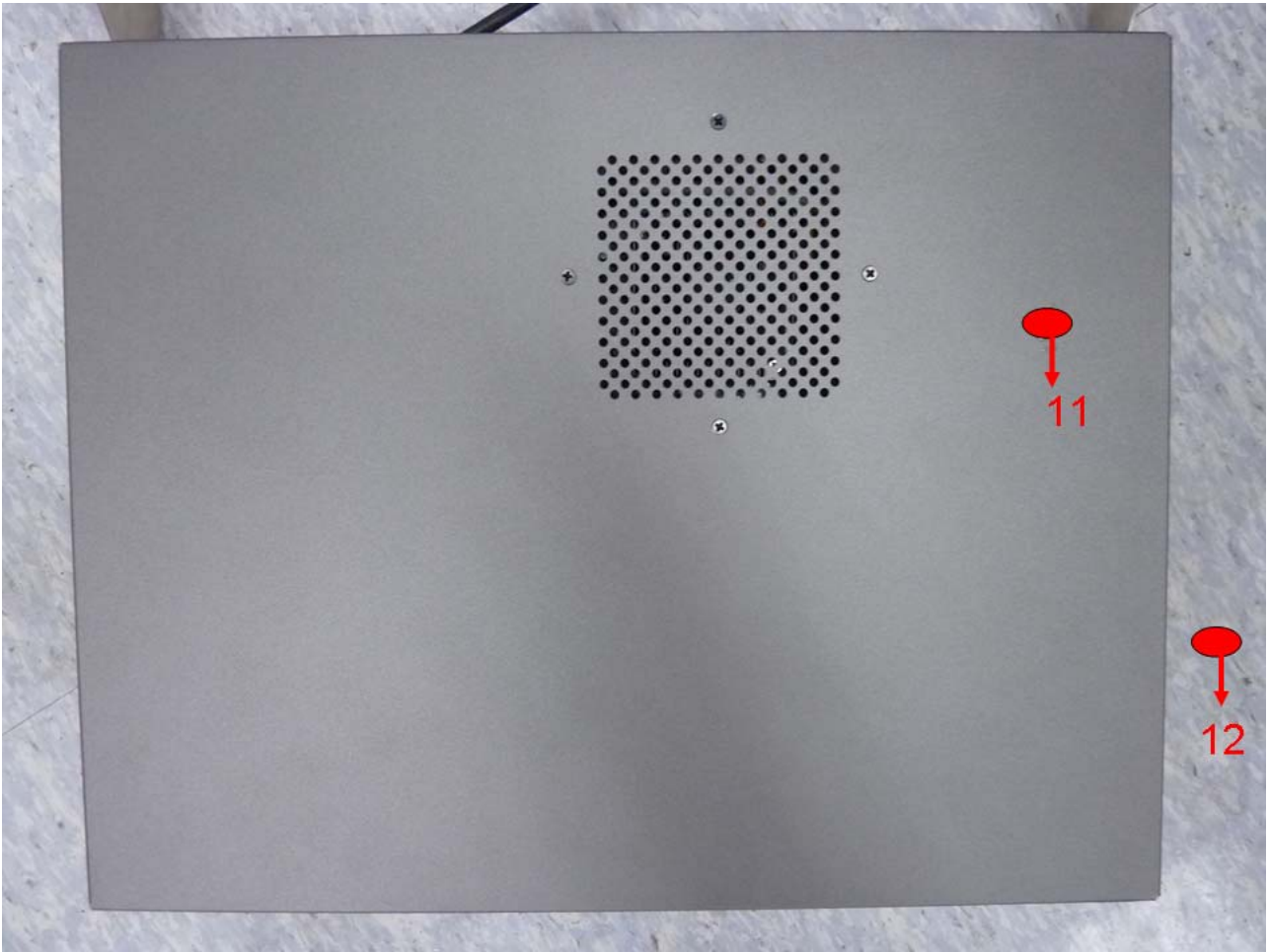
Windows XP / Run PassMark Burn In Test 5.1 Pro

**Terminal Recorder:**

Measuring Thermal Couple Position :



# Temperature rise test



# Temperature rise test

**Thermal profile data:**

**AGP-3175**

Point	Temp. Stage(°C)	Spec	50	25
<b>IMBI-QM57</b>				
01. U58- 20Pin RS-232 Driver&Receivers.		95	77.6	52.6
02. U49- MOSFET Drivers		110	74.3	49.3
03. CPU Die1		90	67.6	42.6
04. CPU Die2		90	64.4	39.4
05. Memory		95	62.8	37.8
06. U2 - Chipset PCH.INTEL.BD82QM57 SLGZQ		100	77.3	52.3
07. LCD Inverter – GP1904-10		85	71.7	46.7
08. SATA H.D		60	57.9	32.9
09. U6 - CLOCK GENERATOR		95	72.1	47.1
10. Control Box Inside Air Temperature		N/A	53.7	28.7
11. Control Box Surface		N/A	50.4	25.4
12. Chamber Air Temperature		N/A	50.3	25.3
<b>Any Tm value showed in red words which meaning the value over the Tc degree C of this device specification.</b>				

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AGP-3175)

**Test Result:**

No problem was found during the temperature rise operation test.

# Temperature cycle test

**Test Date:** 10-20~22-2010

**Test Product:** AGP-3175

**Test Site:** AAEON Internal Lab.

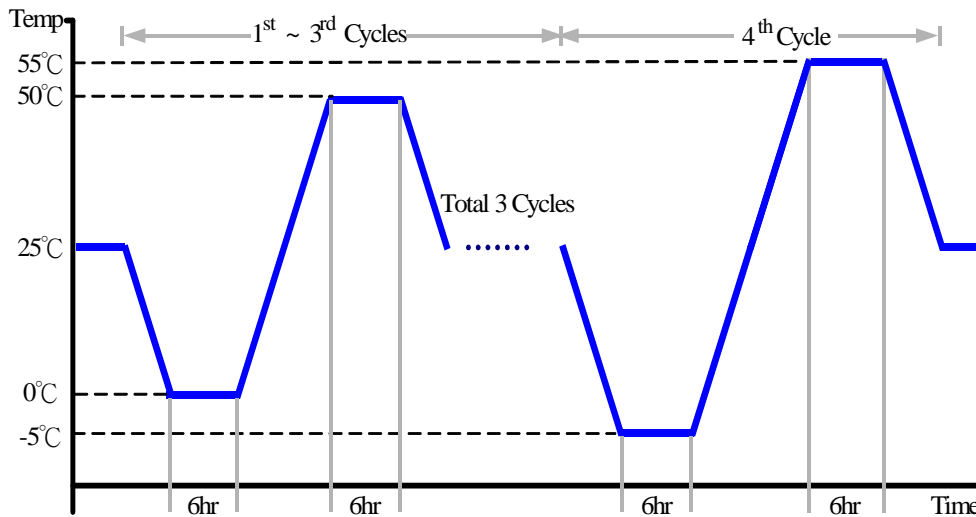
**Test Standard:** Reference IEC68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber  
K.SON. INS. TECH. CORP.  
Model: THS-B6T-150+LN2  
Date of Calibration: 04/01/10  
Serial Number: 6487KT

**Test Condition:**

1. Test Low Temperature: 0°C (1~3 cycles)  
-5°C (4<sup>th</sup> cycle)
2. Test High Temperature: 50°C (1~3 cycles)  
55°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 (AGP-3175)

**Test Result:**

No problem was found during the temperature operation cycle test.

**Test Date:** 10-18~20-2010

**Test Product:** AGP-3175

**Test Site:** AAEON Internal Lab.

**Test Standard:** Reference IEC 68-2-2 Testing procedures  
Test Bb: Dry Heat Test (Non-operation)

**Test Equipment:**

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6487KT

**Testing Item:**

1. Test Temperature: 70°C
2. Test Times: 48Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
4. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AGP-3175)

**Test Result:**

No problem was found after the high temperature storage test.



**Test Date:** 10-14~18-2010

**Test Product:** AGP-3175

**Test Site:** AAEON Internal Lab.

**Test Standard:** Reference IEC 68-2-1 Testing procedures  
Test Ab: Cold Test (Non-operation)

**Test Equipment:**

Programmable Temperature & Humidity Chamber  
K.SON. INS. TECH. CORP.

Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6487KT

**Testing Item:**

1. Test Temperature: -20°C
2. Test Times: 48Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
4. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AGP-3175)

**Test Result:**

No problem was found after the low temperature storage test.

**Test Date:** 10-18-2010 ~ 10-20-2010

**Test Product:** AGP-3175

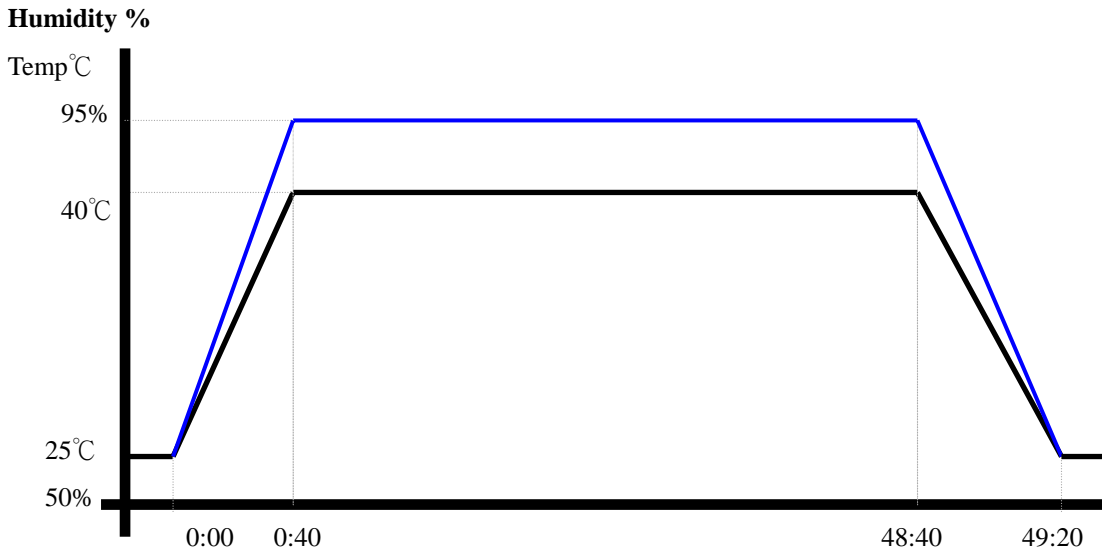
**Test Site:** AAEON Internal Lab.

**Test Standard:** Reference IEC 68-2-3 Testing procedures  
Test Ca: Damp heat, steady state (Non-operation)

**Test Equipment:**  
Programmable Temperature & Humidity Chamber  
K.SON. INS. TECH. CORP.  
Model: THS-B6T-150+LN2  
Date of Calibration: 04/01/10  
Serial Number: 6487KT

**Testing Item:**

1. Test Temperature: 40°C
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Software: Windows XP / Run PassMark Burn In Test 5.1 Pro
5. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**  
Quantity: 1 (AGP-3175)

**Test Result:**  
No problem was found after the humidity storage test.

# Cold start and hot start test

**Test Date:** 10-12~14-2010

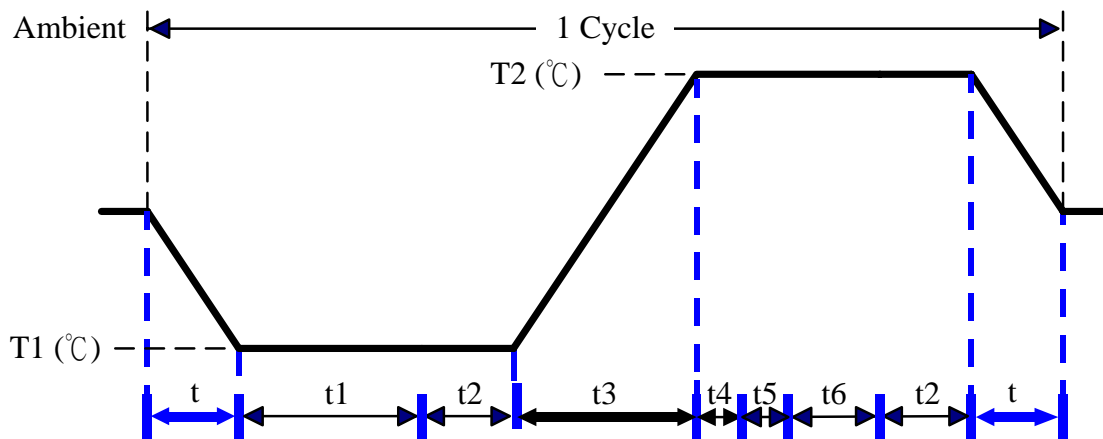
**Test Product:** AGP-3175

**Test Site:** AAEON 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: 04/01/10  
Serial Number: 6487KT

**Test Condition:**



Parameters	Description
T1	-5°C
T2	55°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: Run PassMark Burn In Test  
t5: Win XP Software restart test 3 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.