

AGD-515R

Rev.A1.0

Environment Test Report

Report NO: 11P020041

Summary	<p><input checked="" type="checkbox"/> Pass</p> <p><input type="checkbox"/> Fail</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"/> Pass with Deviation</p> <p>Comment: _____</p>
---------	---

Issue date

Approval

Test Engineer

2011-12-23

Jansin Lee

Matthew Chi

Test item list

1. <i>Test item list</i> -----	2
2. <i>Configuration of EUT</i> -----	3
2. <i>Temperature rise test</i> -----	4
3. <i>Temperature cycle operation test</i> -----	8
4. <i>High temperature storage test</i> -----	9
5. <i>Low temperature storage test</i> -----	10
6. <i>Humidity test</i> -----	11
7. <i>Cold start and hot start test</i> -----	12

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	Humidity test	Pass	
6	Cold start and hot start test	Pass	

Configuration of EUT

Host :

Item	Device Information	
SYSTEM PC Model / Ver.	GES-5500F A1.0	
CPU Board	IMBI-QM57 A1.0	
BIOS / Version	GES-5500F Rev0.4(11/23/2010)	
CPU Type	Intel Core CPU i5-520M 2.40GHz	
Memory Type	DSL DDR3-1066 2GB(ELPIDA J1108BDSE-DJ-F)	
SATA HDD	Fujitsu MH72080BH G2 80GB	
USB DVD-ROM	MSI UO881-P	
LCD Monitor	ACD-515R	
Operating System	<input checked="" type="checkbox"/>	Windows 7 Professional English 32 Bit
DC Adapter	FSP084-DMAA1 100-240V	

Num	Item	Spec
1.	System:	ACD-515R
	1.ExtendClient/Rx Board	PER-T212.Rev.A0.3_0_0
	2.Extend Host/Tx Board	PER-T210.Rev.A0.3_0_0
	2. Panel	AUO 15.6" WXGA(1366*768) Fanless TFT LCD Display
	3. Touch Board	EETI S5000CEGG Rev : V1.08D1
	4. Inverter Board	SAMPO M/N : YIVLAA0730D21
	5. Test Software	Windows 7 / Run one Microsoft media play simultaneously
2.	Adapter :	FSP060-DBAB1 AC-DC 12V / 5A

Temperature rise test

Test Date: 12-23-2011

Test Product: ACD-515R

Test Site: AAEON QE Dept.

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

Temperature Measurement:

40 Channel Thermal Recorder:

YOKOGAWA Inc,

Model: ACD-515R

Date of Calibration: 10/12/2011

Serial Number: 12A323190

Test Condition:

Ambient temperature: 40°C

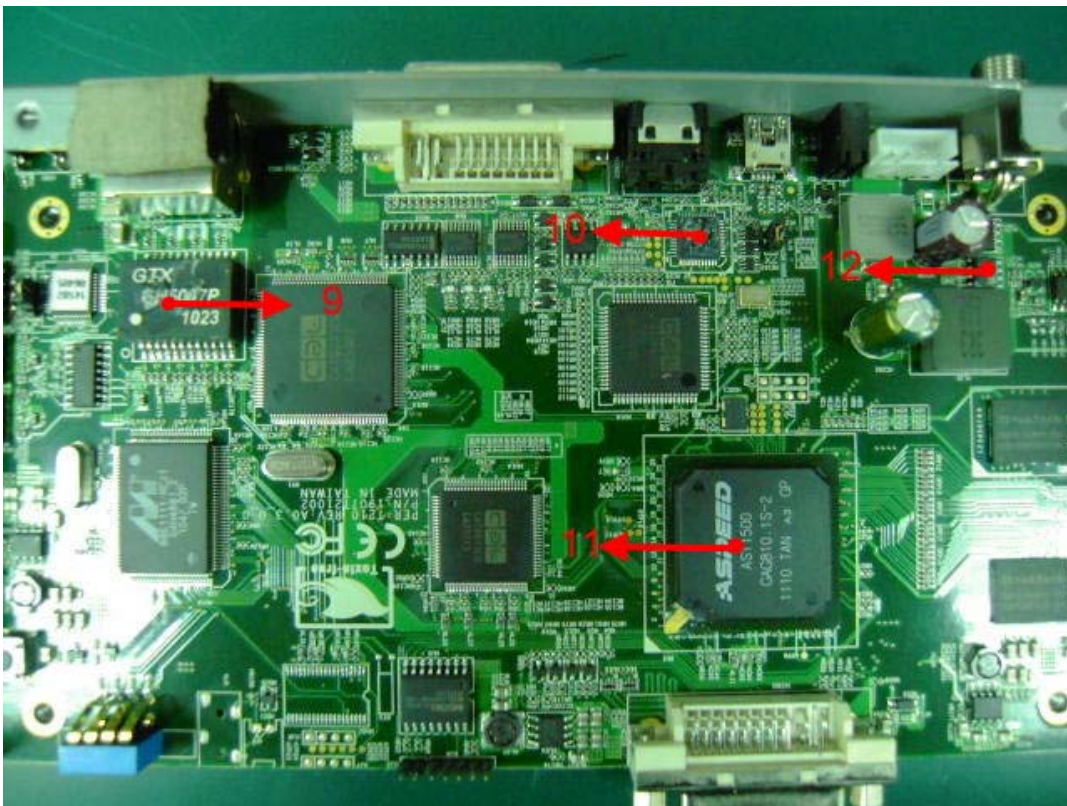
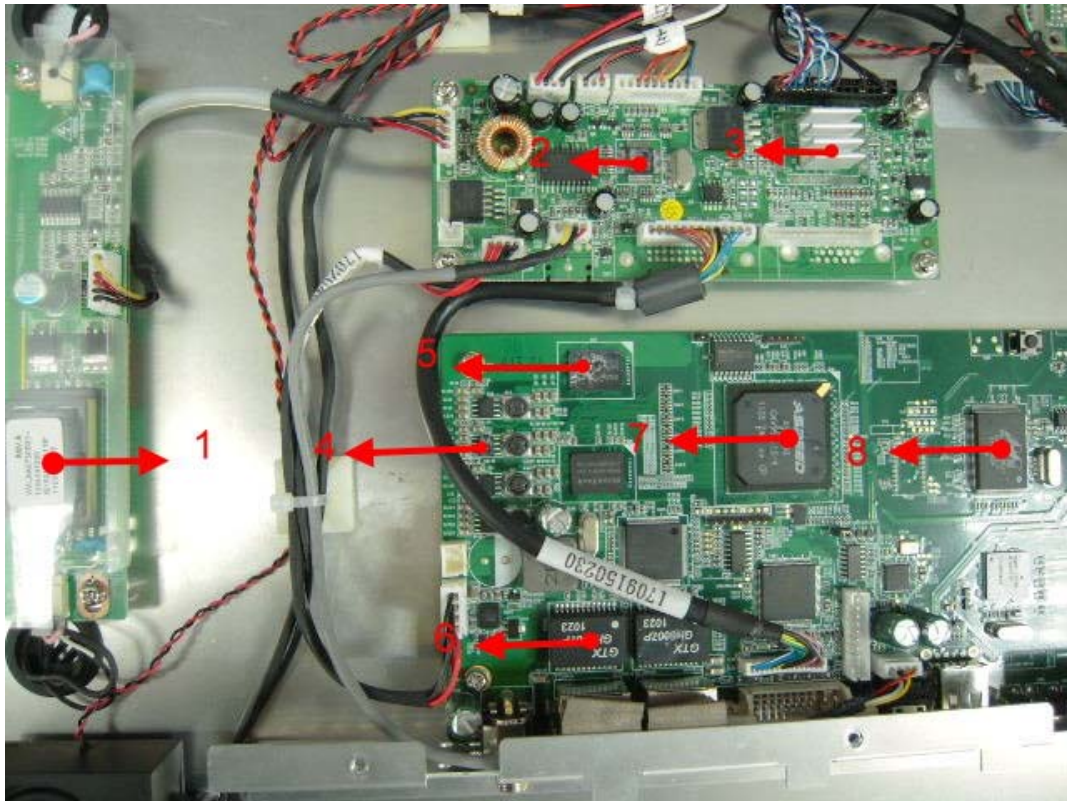
Continuous running till thermal stability (within less than 1°C)

Test Software:

Windows 7 / Run one Microsoft media play simultaneously

Terminal Recorder:

Temperature rise test



Temperature rise test



Temperature rise test

Thermal profile data:

Point	Temp. Stage(°C)	Spec	40	25
SAMPO M/N : YIVLAA0730D21				
01. PT1		85	71.2	56.2
S2523BVL				
02. U4 - REALTEK RTD2120L A6M2002		85	78.3	63.3
03. U8 - REALTEK RTD2555 LH		85	81.1	66.1
Extender HDMI Client/Rx Board.PER-T212				
04.SU2 - (TF)2A Synchronous.Step down Converter.ITE.CAT7810CA		100	80.2	65.2
05.SU7 - (TF)DDRII-SDRAM 400MHz.512Mbits(32M*16bit).Etron.EM68B16CWPA-25H		100	78.0	63.0
06.SU26 - (TF)100/1000 Base Transformers.GOTREND.GTX-GH5007P		85	63.6	48.6
07.SU8 - (TF)PBGA487.W/O ASPEED LOGO.ASPEED.AST1500A3-GP		95	75.0	60.0
08.SU6 - (TF)Gigabit Ethernet Transceiver.MARVELL.88E1111B2-RCJ1C000		100	82.2	67.2
Extender Host/Tx Board.PER-T210				
09. HU19 - (TF)100/1000 Base Transformers.GOTREND.GTX-GH5007P		85	56.7	41.7
10. HU59 - (TF)AUDIO CODEC.REALTEK.ALC5624-GR		100	64.4	49.4
11. HU1 - (TF)IC.SMD.PBGA487.W/O ASPEED LOGO.ASPEED.AST1500A3-GP		95	68.2	53.2
12. HU60 - (TF)PWR.N-Channel.30V.16A.FAIRCHILD.FDS6688S		100	74.2	59.2
13. Control Box Inside Air Temperature (Panel)		N/A	62.7	47.7
14. Control Box Inside Air Temperature		N/A	60.4	45.4
15. Control Box Surface Temperature		N/A	47.8	32.8
16. Control Box Surface Temperature (Panel)		N/A	51.5	36.5
17. Chamber Air Temperature		N/A	40.2	25.2
Any Tm value showed in red words which meaning the value over the Tc degree C of this device specification.				

Sample Configuration & Quantity Under Test:

Quantity: 1 (ACD-515R)

Test Result:

No problem was found during the temperature rise operation test.

Temperature cycle test

Test Date: 11-04 ~ 07-2011

Test Product: ACD-515R

Test Site: AAEON QE Dept.

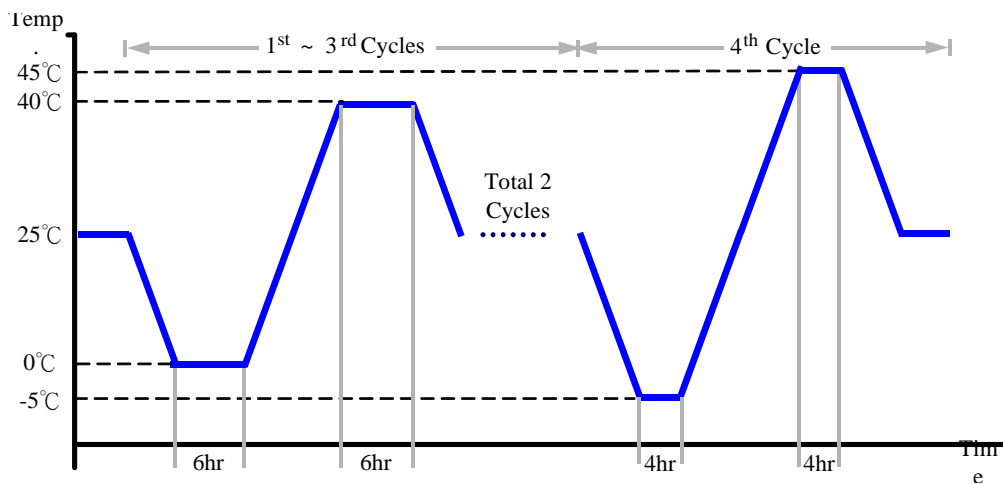
Test Standard: Reference IEC68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D75-100+LN2
Date of Calibration: 10/13/11
Serial Number: 6487KT

Test Condition:

1. Test Low Temperature: 0°C (1~3 cycles)
-5°C (4th cycle)
2. Test High Temperature: 40°C (1~3 cycles)
45°C (4th 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 (ACD-518R)

Test Result:

No problem was found during the temperature operation cycle test.

High temperature storage test

Test Date: 11-02 ~ 03-2011

Test Product: ACD-515R

Test Site: AAEON QE Dept.

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.

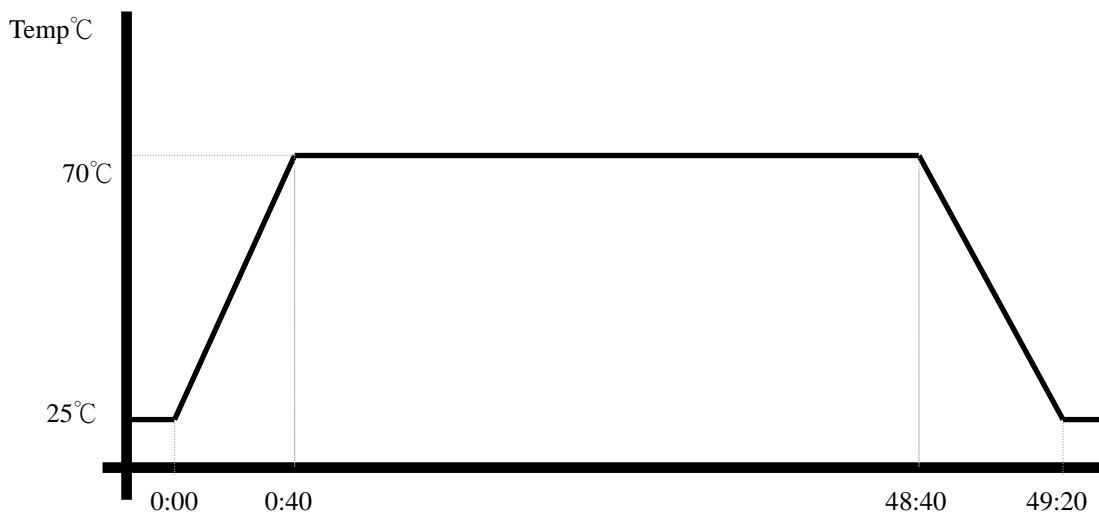
Model: THS-D75-100+LN2

Date of Calibration: 10/13/11

Serial Number: 6487KT

Testing Item:

1. Test Temperature: 70°C
2. Test Times: 48Hrs
3. Test Software: Windows 7 / Run one Microsoft media play simultaneously
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (ACD-515R)

Test Result:

No problem was found after the high temperature storage test.

Low temperature storage test

Test Date: 11-03 ~ 04-2011

Test Product: ACD-515R

Test Site: AAEON QE Dept.

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-D75-100+LN2

Date of Calibration: 10/13/11

Serial Number: 6487KT

Testing Item:

1. Test Temperature: -20°C
2. Test Times: 48Hrs
3. Test Software: Windows 7 / Run one Microsoft media play simultaneously
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (ACD-515R)

Test Result:

No problem was found after the low temperature storage test.

Humidity test

Test Date: 11-07 ~ 08-2011

Test Product: ACD-515R

Test Site: AAEON QE Dept.

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-D75-100+LN2

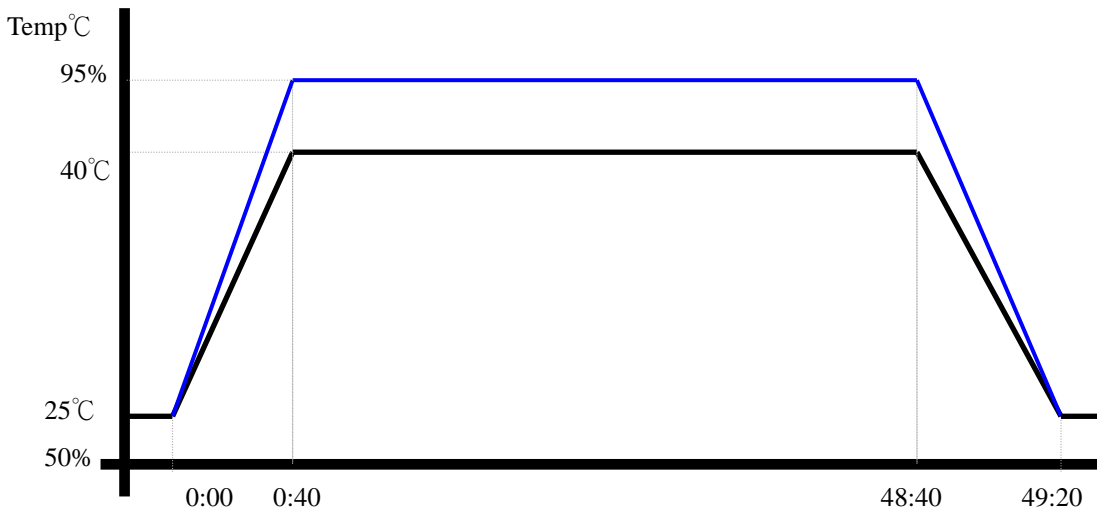
Date of Calibration: 10/13/11

Serial Number: 6487KT

Testing Item:

1. Test Temperature: 40°C
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Software: Windows 7 / Run one Microsoft media play simultaneously
5. Test Environment Curve:

Humidity %



Sample Configuration & Quantity Under Test:

Quantity: 1 (ACD-515R)

Test Result:

No problem was found after the humidity storage test.

Cold start and hot start test

Test Date: 11-08 ~09-2011

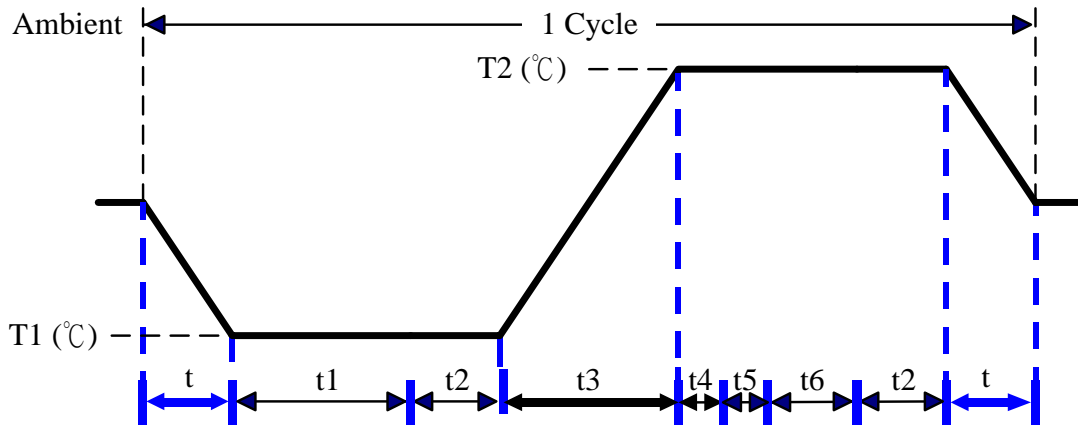
Test Product: ACD-515R

Test Site: AAEON QE Dept.

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-D75-100+LN2
Date of Calibration: 10/13/11
Serial Number: 6487KT

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 = temperature slope
t, t1, t6: Power Off
t2: Power on/off test 10 times (on 2 min / off 5min)
t3, t4: Run media player
t5: Win 7 Software restart test 3 times
Test Software: Windows 7

Test Result:

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