ASUSTeK	COMPUTER			
INC.				

EAH6850 Date: Aug. 26, Standard Operation Procedure Revision: 1.05

Doc. No:
Date:Aug. 26, 2011

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	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTC	Chongling	Dev.06,2009
1.01		Add new P/N(C1CPX5-A01)	GRMA	Ariel_wang	Jan.10,2011
1.02		Add new PCBA(C1CPX5-A12)	GRMA	Ariel_wang	Feb.23,2011
1.03		Add new PCBA(C1CPX5-A22)	GRMA	Ariel_wang	May.31,2011
1.04		Add new PCBA(C1CPX5-A32)	GRMA	Ariel_wang	May.31,2011
1.05		Add new PCBA(YV0061-A34)	GRMA	Ariel_wang	Aug.26.2011

Authorize	Review	Originator	Chongling
by	by	By	

Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: EAH6850

PN: C1CPX0 (A01) C1CPX5(A01&A12&A22&A32) YV0061(A34)

3.Test Item

3.1 Diagnostic test in 64-bit Linux system

3.2 Fan test

3.3 3DMark06(contain HDMI test)

3.4 Temperature test

4.Relevant Document

None.

5.Definition: 1. If the model name contains P, please test HDCP function.

Ex: EAH***/HTDP/512M/A

- 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.
- 3. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
- 4. EAH6850 Test Program in 64-bit Linux system test.

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6. Operation Procedures:

6.1 Attention

- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.
- 6.1.4 Some test items should be tested under Windows environment. (Please install windows 7 test environment by yourself).

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6.2 Fixture connect

- 6.2.1 Install Intel P5 CPU & CPU Fan.
- 6.2.2 Install DDR2 1GB Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card EAH6850 into PCIEX16 1.
- 6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.
 - (6 PIN of Power supply to 6 PIN of VGA card)
 - (8 PIN of Power supply to 8 PIN of VGA card)
- 6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(a minimum power of 1200W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 1200W) Connector.



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6.3 Certain test.

6.3.1 Diagnostic test in 64-bit Linux system

6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



- 6.3.1.2 Press Power Switch then turn on power button.
- 6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults. Advanced Pouer Exit Options Exit system setup Exit & Save Changes Exit & Discard Changes after saving the changes. Discard Changes F10 key can be used for this operation. Load Setup Defaults Select Screen Select Item Go to Sub-screen General Help Save and Exit

6.3.1.4 Run test program in 64-bit linux system.

Path:eah6850\c1cpx0a0.sh or c1cpx5a0.sh or c1cpx5a1.sh or c1cpx5a2.sh c1cpx5a3.sh or yv0061a3.sh

Please enter into the file of eah6850, enter the following command: cd./eah6850

Then,please run ./c1cpx0a0.sh or ./c1cpx5a0.sh or ./c1cpx5a1.sh or ./c1cpx5a2.sh or ./c1cpx5a3.sh or ./yv0061a3.sh

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -test=memfa Path:eah6850\

6.3.1.6 BIOS Version

If you want to see the version of bios,please run ./atiflash.sh or ./atiflash –ai 0. Path:eah6850\

6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character. Path:eah6850\

Command:./atiflash -p -f 0 xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use ./atiflash –unlockrom 0 to unlock bios. And then, please use ./atiflash –lockrom 0 to lock bios after updating

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Path:eah6850/af Notice: ./aft101 or ./aft6 C1CPX0-A01 C1	test FAN, please run /aft101 or /aft64 tt101 or eah6850/AFT64100 4102apply the following Part Number CPX5(A22&A32) YV0061(A34) 64-bit Linux testing, please enter W	102	

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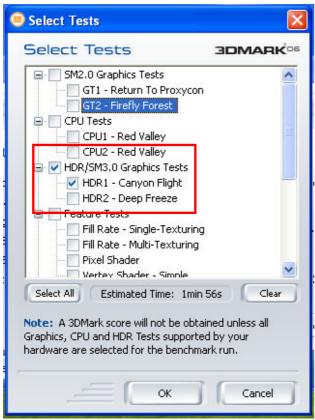
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6.3.2 3DMark test(contain HDMI test)

- 6.3.2.1 Please install 3DMark program by yourself.
- 6.3.2.2 Please connect VGA card to LCD via HDMI cable.



- 6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

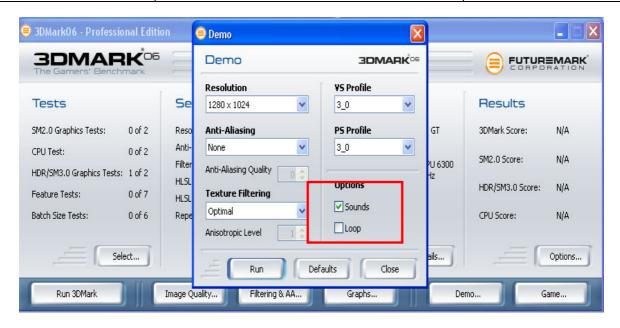


6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.

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- 6.3.2.7 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.



- 6. 3.2.9 If test OK, please test Display port.
- 6. 3.2.10 Connect VGA card to LCD via Display cable test HDMI function. (Please refer to step 6.3.2.4&6.3.2.5&6.3.2.6&6.3.2.7&6.3.2.8)

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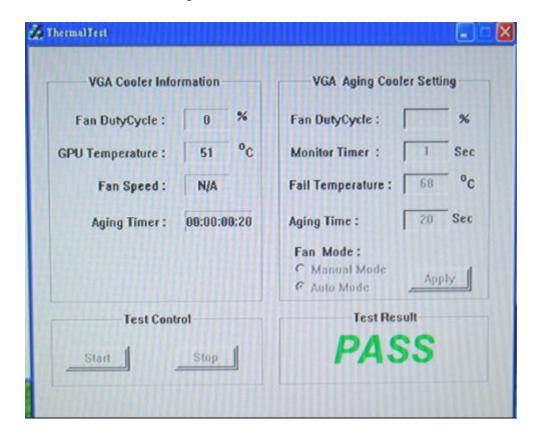
DISPLAY CON

6.4 Temperature test

- 6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.4.2 Please run ThermalTest.exe.



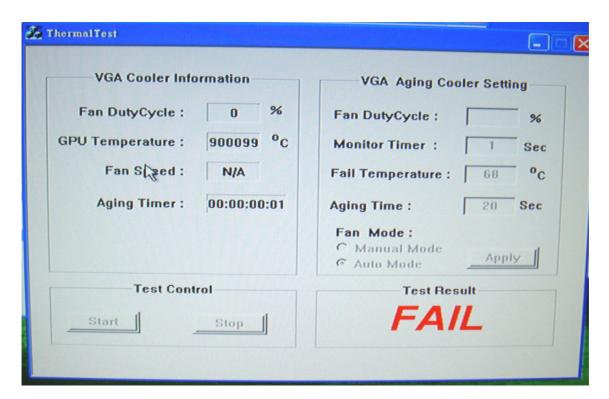
6.4.3 If test ok, show pass.



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6.4.4 If test fail, show fail.



6.4.5 If test OK, please NTF test.

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7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	Pagintosonan
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	E1200
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O'
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
13	P7H55-M/USB3 MB Display port cable (Buying a local HDMI cable by yourself)	80- MIBBKA-*		1	THE STATE OF THE S