EN9400GT Standard Operation Procedure

Doc. No:

Date: Mar. 24. 2010 Revision:1.11

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Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GTC	Robin_Jiang	
1.01		Add New P/N (C1CLS0)	GTC	Robin_Jiang	
1.02		Add New P/N (C1CLNA&C1CLNF)	GTC	Robin_Jiang	
1.03		Add New P/N (C1CLM5)	GTC	Robin_Jiang	
1.04		Modify for new test structure	GTC	Robin_Jiang	
1.05		Add New P/N (C1CLNK)	GTC	Robin_Jiang	
1.06		Add New P/N(C1CLMA)	GTC	Robin_Jiang	May.11.2009
1.07		Add C1CLMA-A11&C1CLNF-A11	GTC	Robin_Jiang	Jun.18.2009
1.08		Add New P/N C1CNE0	GTC	Robin_Jiang	Aug.14.2009
1.09		Add New PCBA A11 For C1CLNK	GTC	Robin_jiang	Aug.21.2009
1.10		Unlock or lock bios	GTC	Robin_jiang	Sep.25.2009
1.11		Add New PCBA(C1CLM5-A11)	GTC	Ariel_wang	Mar.24.2010

Authorize by	R	Review by		Originator By	Robin
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Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: EN9400GT

C1CLM0 PN: C1CLN0 C1CLN5 C1CLS0 C1CLNA

> C1CLNF C1CLM5(A01&A11) C1CLNK C1CLMA C1CNE0

3.Test Item

3.1 Diagnostic test in DOS

3.2 3DMark05(contain HDMI test)

3.3 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.

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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 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 667/800 1GB Memory to DIMM1~2.
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card EN9400GT into PCIEX16.





C1CLM0

C1CLN0

6.2.5 Connect IDE HDD with IDE CON.



- 6.2.6 Plug 4PIN 12V (600W) power cable into CON12V.
- 6.2.7 Plug ATX Power (600W) on Power Connector.



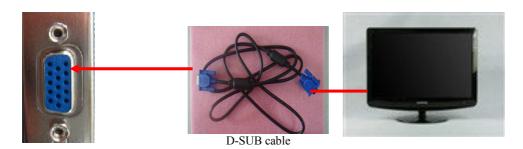
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6.3 Diagnostic test in DOS

6.3.1 Please connect LCD monitor & card's D-SUB CON via a D-SUB cable. (Please connect to CRT port with CRT to test C1CLMA)



- 6.3.2 Press Power Switch then turn on power button.
- 6.3.3 Press "Del" to enter CMOS setup menu while boot screen is displaying. EXIT -> Load Setup Defaults.



6.3.4 System will reboot, select DOS to run test program.

Path: VBAT\EN9400GT\BATCH\

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run mats.exe.

Path: VBAT\EN9400GT\DIAG\

VBAT\EN9400GT\ 0171HX3\ (For C1CLMA,C1CLS0,C1CNE0 and C1CLNK-A11)

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6.3.6 BIOS flash

Please use the following command to flash bios and notice the size of character.

Path: VBAT\EN9400GT\BIOS

Command:nvflash xxx.rom -4 -5 -6 -A -y

Notice:

If you can not flash bios because of the bios locked, please use nvflash.exe /r to unlock bios. And then, please use nvflash.exe /w to lock bios after updating latest bios.

6.3.7 After finish DOS testing, please enter Windows environment to test 3DMark.

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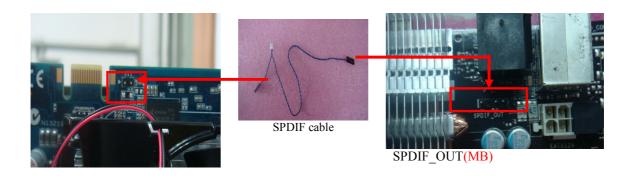
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6.4 3DMark test(contain HDMI test)

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



- 6.4.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.4.4 Plug 4 Pin black cable into SPDIF OUT of MB. Plug another 2 Pin white cable into SPDIF IN of VGA card.



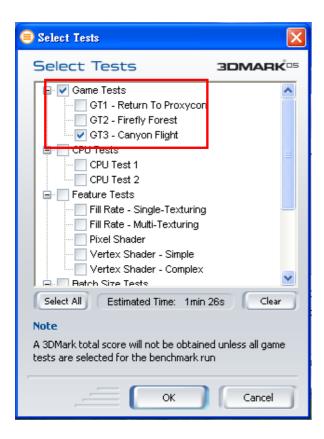
6.4.5 Plug SUPREME FX II card into PCIEX1 of MB.



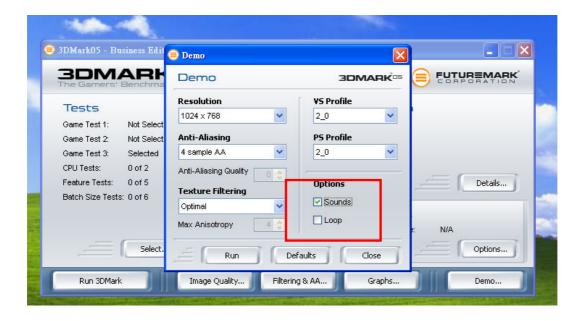
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- 6.4.6 Please install SUPREME FX II card driver in Windows and enter Windows to test HDMI.
- 6.4.7 Please run 3DMark05 base on this card (please test 1 cycle).
- 6.4.8 Press "Select" to enter Select test menu. You can choose "GT3" for default setting.



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



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



6.4.12 If test OK, please NTF test.

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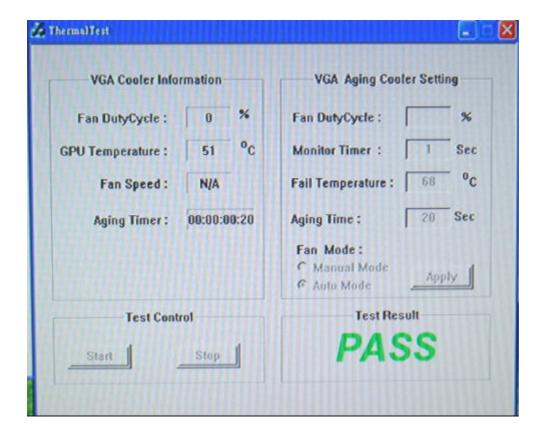
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6.5 Temperature test

- 6.5.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.5.2 Please run ThermalTest.exe.



6.5.3 If test ok, show pass.

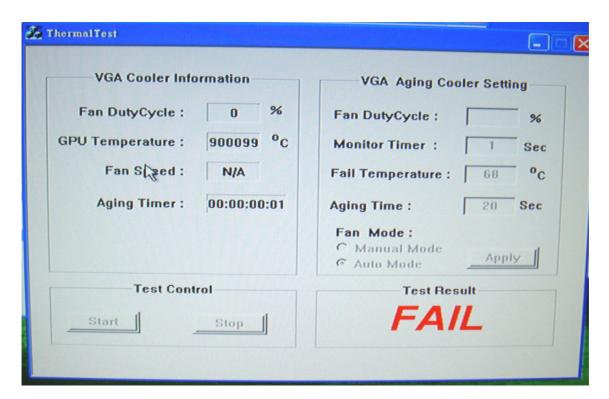


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6.5.4 If test fail, show fail.



6.5.5 If test OK, NTF test.

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7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW			1	
2	PS/2 MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(600W)			1	To to
5	INTEL Celeron E1200			1	E1100
6	Heat sink + FAN	22-240000160		1	
7	APACER 800MHz 512M or 800MHz 1G			512M 2 or 1G 1	
8	TEST HDD			1	
9	40Pins IDE Cable ATA66		ASUS	1	
10	PCIEX16 VGA CARD			1	
11	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
12	S CABLE(NVDIA)	14G010005113 /14G010005100		1	
13	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
14	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
15	TV extend cable (Buying a local TV cable by yourself)			1	

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16	DVI-HDMI	04G460002400 /04G460002450	1	
17	Power Cable	14G000602510 /14G000602502	1	
18	SPDIF CABLE	14G003200813 /14G003200810	1	N
19	SUPREME FX II	80-C1BHK5-0C01	1	
20	LCD "Y" Cable	14-010230000	1	
21	P5E	80-MBB7X0-G0A01	1	