# EN9800GT Standard Operation Procedure Revision:1.20

Doc. No: Date: Dec. 30, 2009

Grade: Page:13

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GTC	Janice_Pang	
1.01		Add New P/N(C1CLE5)	GTC	Janice_Pang	
1.02		Add New P/N(C1CLB0)	GTC	Janice_Pang	
1.03		Add New P/N(C1CM30)	GTC	Janice_Pang	
1.04		Add New P/N(C1CM40)	GTC	Janice_Pang	
1.05		Add New PCBA(C1CLE0-A15)	GTC	Janice_Pang	
1.06		Modify for new test structure	GTC	Janice_Pang	
1.07		Add New P/N(C1CM45)	GTC	Janice_Pang	
1.08		Add New PCBA(C1CM45-A14)	GTC	Janice_Pang	
1.09		Add New P/N(C1CM4A)	GTC	Janice_Pang	
1.10		Add New P/N(C1CM4F)	GTC	Janice_Pang	
1.11		Add New PCBA(C1CLB0-A14)	GTC	Janice_Pang	MAY.12,2009
1.12		Add New PCBA(C1CM4F-A23)	GTC	Janice_Pang	JUL.2,2009
1.13		Add New PCBA(C1CM4A-A12)	GTC	Janice_Pang	JUL.9,2009
1.14		Add New PCBA(C1CM4A-A24)	GTC	Janice_Pang	AUG.14,2009
1.15		Add New PCBA(C1CM4F-A36)	GTC	Janice_Pang	AUG.20,2009
1.16		Add New P/N(C1CM4K)	GTC	Janice_Pang	SEP.23,2009
1.17		Add New PCBA(C1CM4K-A11)	GTC	Janice_Pang	OCT.19,2009
1.18		Add New PCBA(C1CM4K-A11)	GTC	Ariel_wang	Nov.12,2009
		& Add New P/N(C1CM4P)			
1.19		Add New PCBA(C1CM4K-A32)	GTC	Ariel_wang	Dec.4,2009
		&(C1CM4P-A22)			
1.20		Add New PCBA(C1CM4P-A32)	GTC	Ariel_wang	Dec.30,2009

Authorize by	Review by	Ori	iginator By Janice	
-----------------	--------------	-----	-----------------------	--

Form No: T2-009-01 Rev.01

## EN9800GT Standard Operation Procedure | Rev.: 1.20 Page: 1

Doc. No:

Date: Dec. 30, 2009

### 1.Objectives

Create test procedure.

### 2.Scope

Model: EN9800GT

PN: C1CLE0 C1CLE5 C1CLB0 C1CM30 C1CM40

C1CLE0-A1 C1CM45 C1CM4A C1CM4F C1CLB0-A14 C1CM4F-A23/A36 C1CM4A-A12/24 C1CM4K C1CM4K-A11

C1CM4K-A21/A32 C1CM4P-A11/A22/A32

### 3.Test Item

- 3.1 Diagnostic test in DOS
- 3.2 3DMark06(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.

### EN9800GT Standard Operation Procedure

Doc. No:

Date: Dec. 30, 2009

Rev.: 1.20 Page: 2

### 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).

## EN9800GT Standard Operation Procedure | Rev.: 1.20 Page: 3

Doc. No:

Date: Dec. 30, 2009

#### **6.2 Fixture connect**

- 6.2.1 Install Intel P5 CPU & CPU Fan.
- 6.2.2 Install DDR3 1GB Memory to DIMM1~2.
- 6.2.3 Plug PS/2 Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card EN9800GT into PCIEX16.
- 6.2.5 Connect power con of VGA card & Power supply via bundled power cable.





C1CK90

6.2.6 Connect IDE HDD with IDE CON.



- 6.2.7 Plug 4PIN 12V power cable into CON12V.
- 6.2.8 Plug ATX Power on Power Connector.



### EN9800GT Standard Operation Procedure

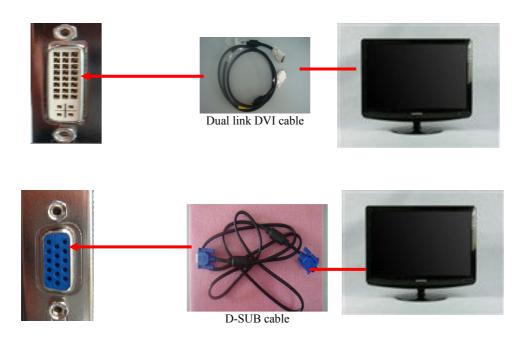
Doc. No:

Date: Dec. 30, 2009

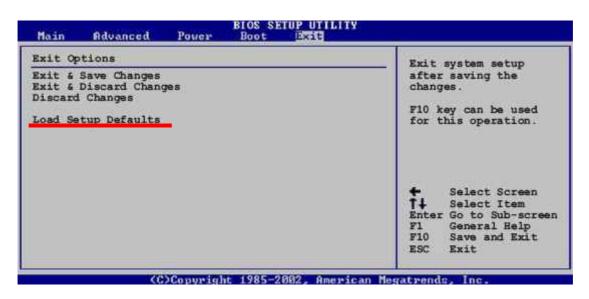
Rev.: 1.20 Page: 4

### 6.3 Diagnostic test in DOS

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



- 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\EN9800GT\BATCH\
Run the test program refer to the prompt.

### EN9800GT Standard Operation Procedure

Doc. No:

Date: Dec. 30, 2009

Rev.: 1.20 Page: 5

### 6.3.5 Memory test

If you want to test memory, please run mats.exe. Path:VBAT\EN9800GT\DIAG

#### 6.3.6 FAN test

If you want to test FAN, please run fantest.bat. Path:VBAT\EN9800GT\BATCH\FANTEST.BAT

#### Notice:

FANTEST.BAT apply the following Part Number C1CM4P-A01 C1CM4K-A01/A11 C1CM4F-A05/A13/A27/A37 C1CM4A-A05/A15/A25

#### 6.3.7 BIOS flash

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

Path: VBAT\EN9800GT\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.

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

EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 6

Doc. No:

Date: Dec. 30, 2009

## **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.



White DVI CON white DVI CON of a part cards has sound out, please test 3DMark.

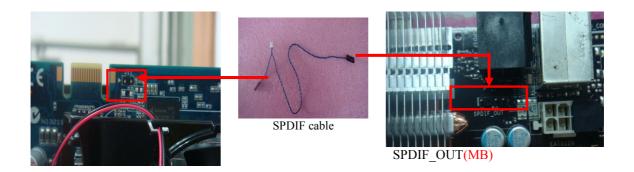


## EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 7

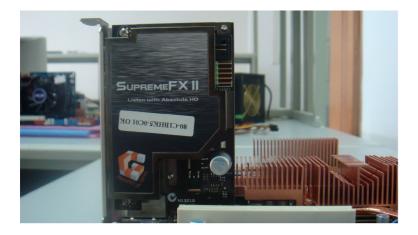
Doc. No:

Date: Dec.  $30, 20\overline{09}$ 

- 6.4.3 Please install VGA card driver in Windows(You must use individual driver of this
- 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.

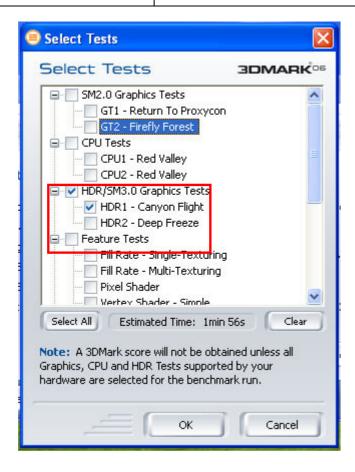


- 6.4.6 Please install SUPREME FX II card driver in Windows and enter Windows to test HDMI.
- 6.4.7 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.

# EN9800GT Standard Operation Procedure | Rev.: 1.20 Page: 8

Doc. No:

Date: Dec. 30, 2009



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

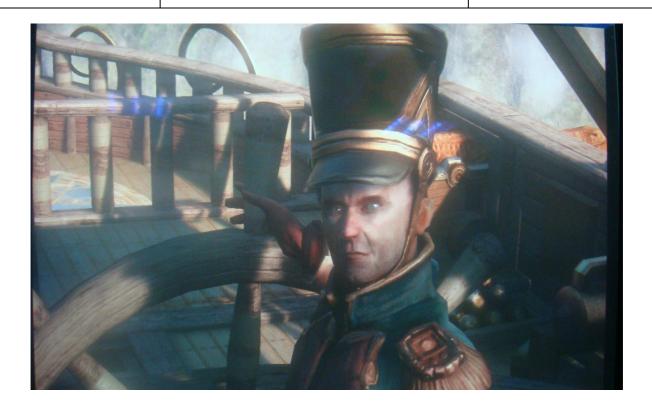


- 6.4.10 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.4.11 Listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.

## EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 9

Doc. No:

Date: Dec. 30, 2009

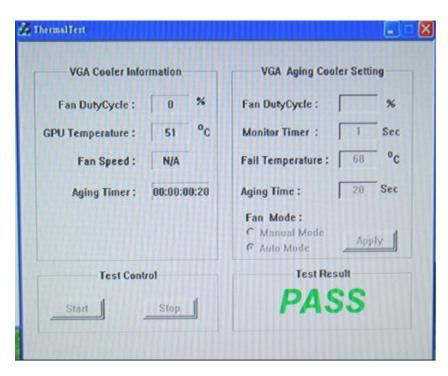


### **6.5** Temperature test

- 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.

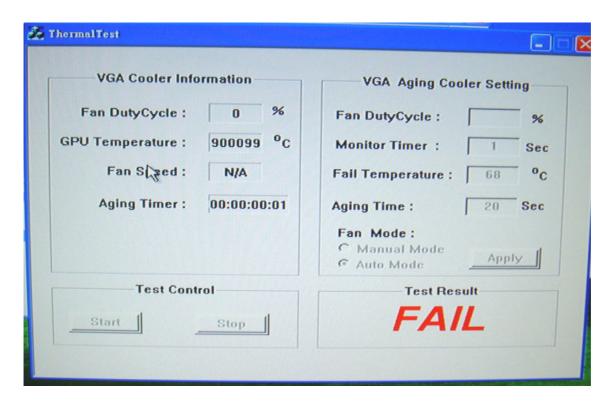


# EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 10

Doc. No:

Date: Dec. 30, 2009

6.5.4 If test fail, show fail.



6.5.5 If test OK, NTF test.

# EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 11

Doc. No:

Date: Dec. 30, 2009

# 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	
5	INTEL Celeron E1200			1	E1200
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	

# EN9800GT Standard Operation Procedure Rev.: 1.20 Page: 12

Doc. No:

Date: Dec. 30, 2009

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