

ASUSTeK COMPUTER INC.	R9270 Standard Operation Procedure	Doc. No:	
		Date: Aug.13.2014 Revision:1.08	
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Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRMA	Jory_yuan	Sep.27.2013
1.01		Add new P/N(YV04X1-A01)	GRMA	Jory_yuan	Sep.27.2013
1.02		Add new P/N(YV04X2-A01)	GRMA	Jory_yuan	Nov.6.2013
1.03		Add new PCBA(YV04X0-A14)	GRMA	Jory_yuan	Feb.12.2014
1.04		Add new PCBA(YV04X1-A13)	GRMA	Jory_yuan	Feb.19.2014
1.05		Add new PCBA(YV04X0-A24)	GRMA	Jory_yuan	Mar.19.2014
1.06		Add new PCBA(YV04X1-A23)	GRMA	Jory_yuan	Mar.19.2014
1.07		Add new P/N(PA04L2-A01)	GRMA	Jory_yuan	Aug.13.2014
1.08		Add new PCBA(PA06L0-A11)	GRMA	Jory_yuan	Aug.13.2014

Authorize by		Review by		Originator By	Jory
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1.Objectives

Create test procedure.

2.Scope

Model: R9270

PN: YV04X0(A01&A14&A24)YV04X1(A01&A13&A23)YV04X2(A01)
PA06L0(A01&A11)

3.Test Item

3.1 Diagnostic test in 12_04_64-bit Linux

3.2 3DMark06(contain HDMI test)

3.3 Temperature test

3.4 Fan 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. R9270 Test Program in 64-bit Linux system.

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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 P7 CPU & CPU Fan.

6.2.2 Install DDR3 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 R9270 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)

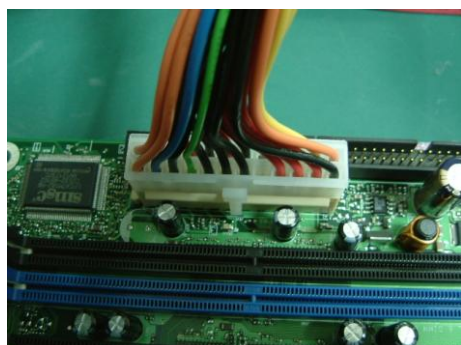
(8 PIN of Power supply to 8 PIN of VGA card)

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.



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.



6.3.1.4 Run test program in 64-bit linux system.

Path:R9270\yv04x0a0.sh or ./yv04x1a0.sh or ./yv04x2a0.sh or yv04x0a1.sh or yv04x1a1.sh or yv04x0a2.sh or yv04x1a2.sh
Path:R92701\pa06l0a0.sh or pa06l0a1

6.3.1.5 Memory test

If you want to test memory, please run `./tserver -boardtest=memfa` or `memtest.sh`

Path:R9270\

Path:R92701\

6.3.1.6 BIOS Version

If you want to see the version of bios,please run `./atiflash -ai 0` or `./biosinfo`.

Path:R9270\

6.3.1.7 BIOS flash

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

Path:R9270\


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 latest bios.

6.3.2 If test OK, please NTF test.

7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	

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	
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	
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	Display port cable (Buying a local Display port cable by yourself)			1	
15	Mini Display port to HDMI cable (Buying a local Mini Display port to HDMI cable by yourself)			1	
16	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	