

ASUSTeK COMPUTER INC.	R9280X Standard Operation Procedure	Doc. No:	
		Date: Apr.16.2014 Revision:1.05	
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Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRMA	Jory_yuan	Sep.4.2013
1.01		Add new PCBA(YV04Y1-A01)	GRMA	Jory_yuan	Sep.4.2013
1.02		Add new P/N(YV0500-A02)	GRMA	Jory_yuan	Aug.11.2013
1.03		Add new P/N(YV0501-A02)	GRMA	Jory_yuan	Aug.11.2013
1.04		Add new PCBA(YV0500-A13)	GRMA	Jory_yuan	Mar.26.2014
1.05		Add new PCBA(YV0501-A13)	GRMA	Jory_yuan	Apr.16.2014

Authorize by		Review by		Originator By	Jory
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1.Objectives

Create test procedure.

2.Scope

Model: R9280X

PN: YV04Y0(A01)YV04Y1(A01)YV0500(A02&A13)YV0501(A02&A13)

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. R9280X 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).

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 R9280X 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)

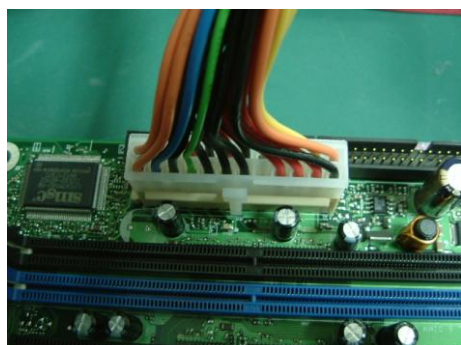
(8 PIN of Power supply to 8 PIN of VGA card)

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.



Dual link 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:R9280X\yv04y0a0.sh or ./yv04y1a0.sh or ./yv0500a0.sh or ./yv0501a0.sh or yv0500a1.sh or yv0501a1.sh

6.3.1.5 Memory test

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

Path:R9280X\

6.3.1.6 BIOS Version

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

Path:R9280X\

6.3.1.7 BIOS flash

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

Path:R9280X\

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.

6.3.1.8 FAN Test

It has been included in the FCT test.

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	