

ASUSTeK COMPUTER INC.	R9280 Standard Operation Procedure	Doc. No:	
		Date: Apr. 09. 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	Mar.5.2014
1.01		Add new P/N(YV0621-A01)	GRMA	Jory_yuan	Mar.5.2014
1.02		Add new PCBA(YV0620-A11)	GRMA	Jory_yuan	Apr.9.2014
1.03		Add new PCBA(YV0621-A11)	GRMA	Jory_yuan	Apr.9.2014
1.04		Add new P/N(YV0670-A01)	GRMA	Jory_yuan	Apr.9.2014
1.05		Add new P/N(YV0671-A01)	GRMA	Jory_yuan	Apr.9.2014

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)YV0501(A02)YV0620(A01&A11)

YV0621(A01&A11)YV0670(A01)YV0671(A01)

## 3.Test Item

3.1 Diagnostic test in 12\_04\_64-bit Linux

3.2 3DMark11(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).

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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 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)**

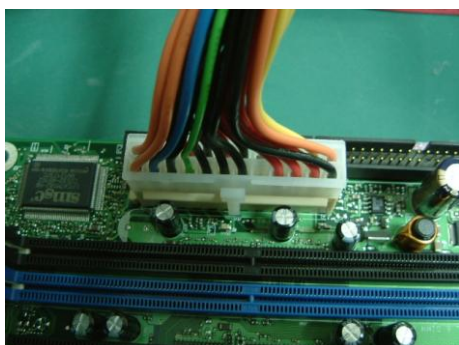
**(8 PIN of Power supply to 8 PIN of VGA card)**

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.



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:R9280\yv0620a0.sh or yv0621a1.sh or yv0670a0.sh or yv0671a0.sh

Path:R92801\ yv0621a0.sh or yv0620a1.sh

#### 6.3.1.5 Memory test

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

Path:R9280\

Path:R92801\

#### 6.3.1.6 BIOS Version

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

Path:R9280\

#### 6.3.1.7 BIOS flash

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

Path:R9280\

Command: `./acom [adapter num] [bios name]`

**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

Please run `./atfi111`.

Path:r9280\AFT

#### 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	