ASUSTeK	COMPUTER
INC.	

R5310-1GD3 Standard Operation Procedure Revision: 1.00

Doc. No:

Date: Jun.11.2018

Page: 10 Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico Zhang	Jun.11.2018

Authorize by	Review by	Originator By	Maico

Form No: T2-009-01 Rev.01

R5310-1GD3

Standard Operation Procedure

Doc. No:

Date: Jun. 11. 2018 Rev.: 1.00 Page: 1

1.Objectives

Create test procedure.

2.Scope

Model: R5310-1GD3

PN: PA07H0

3.Test Item

3.1 Diagnostic test in 12_04_64-bit Linux

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. R5310 Test Program in 64-bit Linux system.

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).

R5310-1GD3

Standard Operation Procedure

Doc. No:

Date: Jun. 11. 2018 Rev.: 1.00 Page: 2

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 R5310 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.

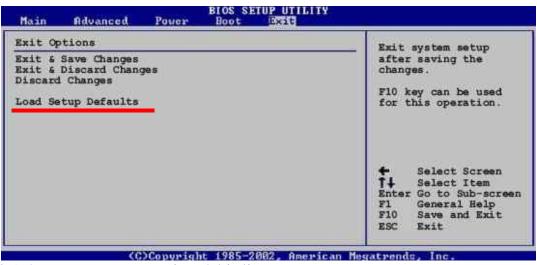


- 6.3.1.2 Press Power Switch then turn on power button.
- 6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying. EXIT -> Load Setup Defaults.

R5310-1GD3Standard Operation Procedure

Doc. No:

Date: Jun. 11. 2018 Rev.: 1.00 Page: 3



6.3.1.4 Run test program in 64-bit linux system.

Path:R5310-1GD3\ pa07h0.sh

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh Path: R5310-1GD3 $\$

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash -ai 0 or ./biosinfo. Path: R5310-1GD3\

6.3.1.7 BIOS flash

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

Path: R5310-1GD3\

Command:./atiflash -p -f 0 xxx.rom or ./acom_v1.3 0 xx.rom -f

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

R5310-1GD3Standard Operation Procedure

Doc. No:

Date: Jun. 11. 2018 Rev.: 1.00 Page: 4

1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	Politica de la Constantina del Constantina de la Constantina del Constantina de la C
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	E11200
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	O
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	2.015
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	