| ASUSTeK | COMPUTER |
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| INC. | |

R7 340-2GD3 Standard Operation Procedure Revision: 1.00

Doc. No:

Date: Jun.22.2018

Page: 10 Grade:

| Rev. | Modified Chapters | Modification Description | Issued Dept. | Issued by | Revised Date |
|------|----------------------|--------------------------|--------------|-------------|--------------|
| 1.00 | | First Release | GRTD | Maico Zhang | Jun.22.2018 |

| Authorize by | Review by | Originator By | Maico |
|-----------------|--------------|------------------|-------|
| | | | |

Form No: T2-009-01 Rev.01

R5310-1GD3

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1.Objectives

Create test procedure.

2.Scope

Model: R7 340-2GD3

PN: PA07G0

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. R7 340 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).

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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 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.



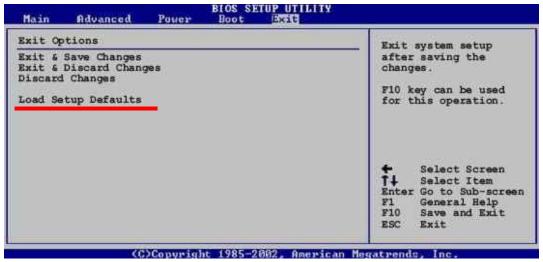
- 6.3.1.2 Press Power Switch then turn on power button.
- 6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults.

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6.3.1.4 Run test program in 64-bit linux system.

Run the test program ,Please run ./tserver -boardtest=quickmfg Path:R7340-2GD3

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh Path: R7340-2GD3\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash –ai 0 or ./biosinfo. Path: R7340-2GD3\

6.3.1.7 BIOS flash

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

Path: R7340-2GD3\

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.

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7.Appendix

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|-----|--|--------------|----------|----------|--|
| NO# | Equipment Description | ASUS Part# | Supplier | Quantity | Remarks |
| 1 | Dell 30 inches (3008WFP) (Buying a local LCD by yourself) | | | 1 | P P P P P P P P P P P P P P P P P P P |
| 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 | |
| 12 | HDMI extend cable (Buying a local HDMI cable by yourself) | | | 1 | O |
| 13 | P7H55-M/USB3 MB | 80- MIBBKA-* | | 1 | |
| 14 | Display port cable (Buying a local Display port cable by yourself) | | | 1 | THE STATE OF THE S |
| 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 | |