ASUSTeK	COMPUTER				
INC.					

## GTX1060-3GD5 Standard Operation Procedure

Doc.	No:
Date:	Jan. 23. 2018
Revis	sion:1.00

Page: 9

Grade:

0Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00	T	First release	GRTD	Maico_Zhang	Jan.23.2018

# 1.Objectives

Create test procedure.

2.Scope

Model:GTX1060-3GD5

PN: PD0270

## 3.Test Item

3.1 Diagnostic test in Tiny Linux

Authorize by Review by Originator By Ma	ico
---	-----

Form No: T2-009-01 Rev.01

GTX1060-3GD5

Standard Operation Procedure Rev.:1.00 Page:1

Doc. No:
Date: Jan. 23. 2018

### **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.

### 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 7 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...
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card GTX1060 into PCIEX16.
- 6.2.5 Connect power con of VGA card & Power supply via bundled power cable.
- 6.2.6 Connect SATA HDD with SATA CON.



## GTX1060-3GD5 Standard Operation Procedure Rev.: 1.00 Page: 2

Doc. No:

Date: Jan. 23, 2018

- 6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.
- 6.2.8 Plug ATX Power (1200W) on Power Connector.

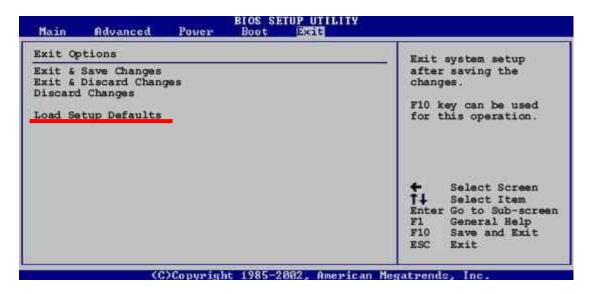


### 6.3 Diagnostic test in Tiny Linux.

6.3.1Please connect LCD monitor & card's first DVI CON via a DVI cable.



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



GTX1060-3GD5 Date:Jan. 23. 2018
Standard Operation Procedure Rev.:1.00 Page: 3

Doc. No: Date: Jan. 23. 2018

6.3.4 System will reboot, select Linux to run test program. Path:GTX1060-3GD5\ pd0270.sh

6.3.5 Memory test

If you want to test memory, please run ./mats -e xx or ./mats -c xx

Where,-c xx----- only xx% of frame buffer is detected.

Path:GTX1060-3GD5\

#### 6.3.7 BIOS flash

If you want to check Vbios infor, Please run biosinfo

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

Path: Path: GTX1060-3GD5

Command: nvflash xxx.rom -6 -A or iromflsh xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use nvflash.exe /r or nvflash.exe -r to unlock bios. And then, please use nvflash.exe /w or nvflash.exe -w to lock bios after updating latest bios.

6.3.8 Please connect LCD monitor & card's the other DVI CON via a DVI cable. (Please refer to step 6.3.2&6.3.4)



6.3.9 If test OK, please NTF test.

### 7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW			1	
2	USB MOUSE			1	

# GTX1060-3GD5 Standard Operation Procedure Rev.:1.00 Page:4

Doc. No:

Date: Jan. 23. 2018

3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	The second secon
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	61200
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	O
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	TV extend cable (Buying a local TV cable by yourself)			1	
15	LCD "Y" Cable	14-010230000		1	
16	HDMI to MINI HDMI cable (Buying a local cable by yourself)			1	