

ASUSTeK COMPUTER INC.	GTX1060-3GD5 Standard Operation Procedure	Doc. No:	
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ORev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		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	Maico
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#### 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.



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.

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



Dual link 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.**



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 info, 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 `iromflash 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	

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	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	