

ASUSTeK COMPUTER INC.	GTX1660TI-6GD6 Standard Operation Procedure	Doc. No:	
		Date: Oct.24.2019 Revision:1.00	
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0Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GRTD	Maico_Zhang	Oct.24.2019

# 1. Objectives

Create test procedure.

# 2. Scope

Model:GTX1660TI  
PN: PD02X0

<b>Authorize by</b>		<b>Review by</b>		<b>Originator By</b>	Maico
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### 3. Test Item

#### 3.1 Diagnostic test in Tiny Linux

### 4. Relevant Document

None.

**5. Definition:** Please install OS above Tinylinux18.07 ver. to test HDD.

### 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).

#### 6.2 Fixture connect

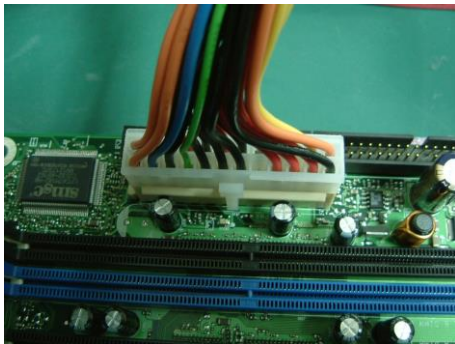
- 6.2.1 Install Intel CPU & CPU Fan.
- 6.2.2 Install DDR Memory to DIMM1~4.
- 6.2.3 Plug USB Mouse and Keyboard into MB.
- 6.2.4 Plug VGA Card GTX1660TI into PCIEX16.
- 6.2.5 Connect power con of VGA card & Power supply via bundled power cable.
- 6.2.6 Connect SATA HDD with SATA CON.



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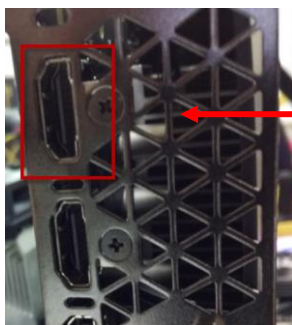
6.2.7 Plug 4PIN 12V power cable into CON12V.

6.2.8 Plug ATX Power on Power Connector.



### 6.3 Diagnostic test in Tiny Linux.

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



HDMI 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.**

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6.3.4 System will reboot, select Linux to run test program.

Path: GTX1660TI-6GD6\ pd02x0sh

Run the test program refer to the prompt.

#### 6.3.5 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: GTX1660TI-6GD6\

Command: **nvflash xxx.rom -6 -A**

**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.

### 6.4 Result upload to server (need connect to internet)

6.4.1 Download and copy RMA upload tool to diag folder by model (It don't need copy after 2018.5 uploaded model).

**The tool of RMA upload tool include 3 files:**

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Check\_SN



RMA\_Config



RMAInfo

#### 6.4.2 Edit **RMA\_Config** file:

First line confirms the address of local sever, second line is Tester ID.

The **RMA\_Config** only need modify one time.

```

CN ← Server Select
1150231 ← Test ID

-----
# First Line : Server Select.
# Second Line : Test ID

Server Select :

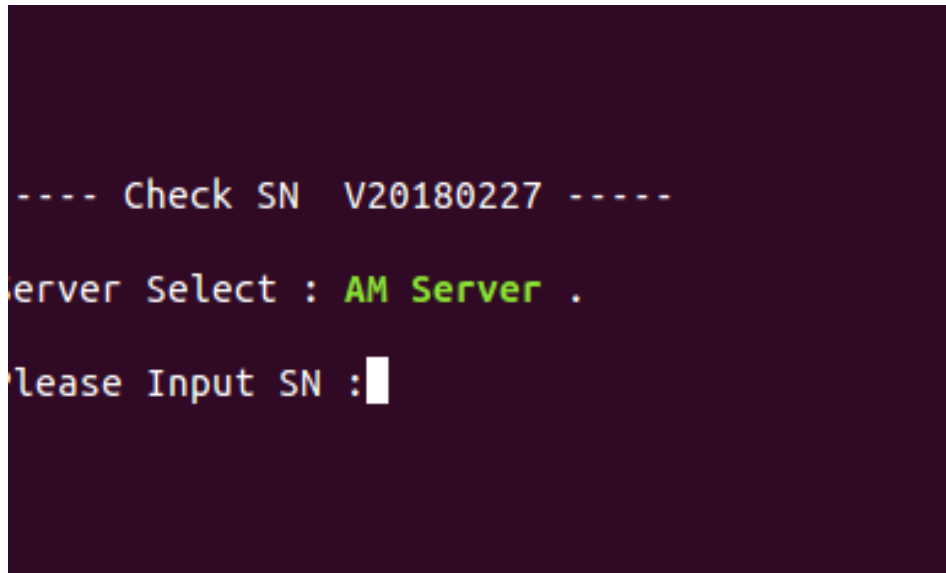
1. AS --> https://as.eservice.asus.com
2. CN --> https://cn.eservice.asus.com
3. AM --> https://am.eservice.asus.com
4. AU --> https://au.eservice.asus.com
5. EU --> https://eu.eservice.asus.com

Test ID : RMA Tester ID

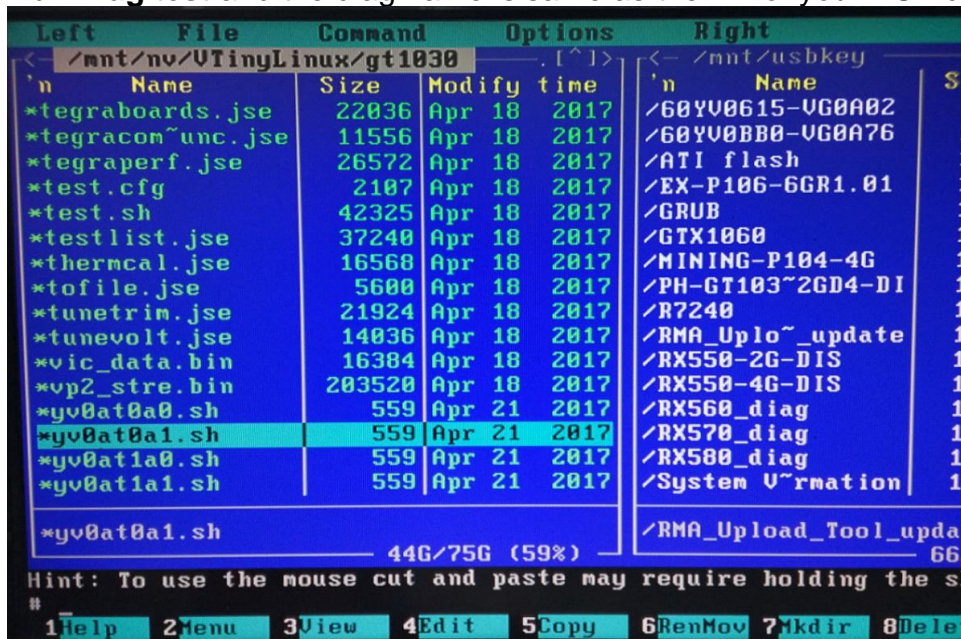
```

6.4.3 Run **Check\_SN** and type in your VGA SN which need to be testing. The SN must be in repair status.

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6.4.4 Run **Diag test** and the diag name is same as the PN of your VGA card.



6.4.5 After Diag test is finished, run **RMAInfo** and the test result will be sent to server.

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```

=====
=      ASUS VGA RMA Infomation      =
=      Rev2018.02.27                =
=====

Tester ID = 11502YQ
Addr = AM Server .
Problem Code : MNTF01
NV Test Result = PASS
NV Error Code = 000000000000

Update Data To ASUS VGA Server.....

Update Data:  HAC0YZ268879 PASS 06/03/2018 08:51:59 11502YQ







Please Wait For Ther Return Status:

Result:
SUCCESS
-----

```





6.5 If test OK, please NTF test.

## 7. Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz		local	1	
2	USB MOUSE		local	1	
3	KEYBOARD		local	1	
4	ATX POWER SUPPLY(a minimum power of 600W)		local	1	
5	Intel CPU Intel(R) I5 7500 CPU		local	1	
6	Heat sink + FAN		local	1	



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7	DDR4 2400 4G		local	2	
8	TEST HDD		local	1	
9	SATA HDD Cable		local	1	
11	HDMI cable (Buying a local HDMI cable by yourself)		local	1	
12	ASUS Prime B250-plus MB		local	1	
13	Display port cable (Buying a local Display port cable by yourself)		local	1	