

ASUSTeK COMPUTER INC.	RX560 Standard Operation Procedure	Doc. No:	
		Date: May.17.2018	
		Revision:1.22	
		Page: 10	Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico_Zhang	May.8.2017
1.01		Add new PN(YV0AH1-A01)	GRTD	Maico_Zhang	May.8.2017
1.02		Add new PN(YV0AH2-A01)	GRTD	Maico_Zhang	May.19.2017
1.03		Add new PN(YV0AH3-A01)	GRTD	Maico_Zhang	May.19.2017
1.04		Add new PN(YV0AH4-A02)	GRTD	Maico_Zhang	Jun.27.2017
1.05		Add new PN(YV0AH5-A02)	GRTD	Maico_Zhang	Jun.27.2017
1.06		Add new PCBA(YV0AH0-A11)	GRTD	Maico_Zhang	Jul.19.2017
1.07		Add new PCBA(YV0AH1-A11)	GRTD	Maico_Zhang	Jul.19.2017
1.08		Add new PCBA(YV0AH4-A12)	GRTD	Maico_Zhang	Jul.26.2017
1.09		Add new PN(YV0AH6-A02)	GRTD	Maico_Zhang	Sep.22.2017
1.10		Add new PN(YV0AH7-A02)	GRTD	Maico_Zhang	Sep.22.2017
1.11		Add new PN(YV0AH8-A01)	GRTD	Maico_Zhang	Oct.5.2017
1.12		Add new PN(YV0AH9-A01)	GRTD	Maico_Zhang	Oct.5.2017
1.13		Add new PN(YV0AHC-A02)	GRTD	Maico_Zhang	May.4.2018
1.14		Add new PN(YV0AHD-A02)	GRTD	Maico_Zhang	May.4.2018
1.15		Add new PN(YV0AHE-A01)	GRTD	Maico_Zhang	May.4.2018
1.16		Add new PN(YV0AHF-A01)	GRTD	Maico_Zhang	May.4.2018
1.17		Add new PN(YV0AH8-A11)	GRTD	Maico_Zhang	May.4.2018
1.18		Add new PN(YV0AH9-A11)	GRTD	Maico_Zhang	May.4.2018
1.19		Add new PN(YV0AH0-A22)	GRTD	Maico_Zhang	May.17.2018
1.20		Add new PN(YV0AH1-A22)	GRTD	Maico_Zhang	May.17.2018
1.21		Add new PCBA(YV0AHA-A01)	GRTD	Maico_Zhang	May.17.2018
1.22		Add new PCBA(YV0AHB-A01)	GRTD	Maico_Zhang	May.17.2018

Authorize by		Review by		Originator By	Maico
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1.Objectives

Create test procedure.

2.Scope

Model: RX560
PN: YV0AH0(A01) YV0AH1(A01) YV0AH2(A01) YV0AH3(A01) YV0AH4(A02)
YV0AH4(A02) YV0AH0(A11) YV0AH1(A11) YV0AH4(A12) YV0AH6(A02)
YV0AH7(A02) YV0AH8(A01) YV0AH9(A01) YV0AHC(A02) YV0AHD(A02)
YV0AHE(A01) YV0AHF(A01) YV0AH8(A11) YV0AH9(A11) YV0AH0(A22)
YV0AH1(A22) YV0AHA(A01) YV0AHB(A01)

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3.Test Item

3.1 Diagnostic test in 14_04_64-bit Linux

4.Relevant Document

None.

5.Definition :

1. RX560 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).

6.2 Fixture connect

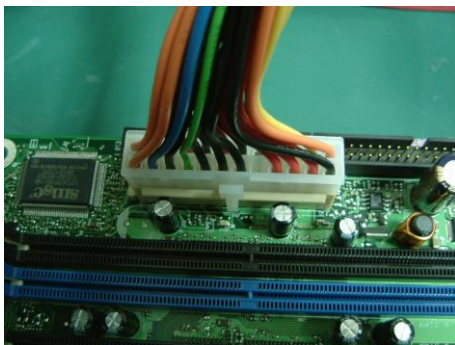
- 6.2.1 Install Intel CPU & CPU Fan.
- 6.2.2 Install DDR Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card RX560 into PCIEX16_1.
- 6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & 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.



Dual link 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.



6.3.1.4 Run test program in 64-bit linux system.

Path:rx560\ yv0ah0a0 or yv0ah0a1

Path:rx5601\ yv0ah1a0 or yv0ah1a1

Path:rx5602\ yv0ah2a0

Path:rx5603\ yv0ah3a0

Path:rx5604\ yv0ah4a0 or yv0ah4a1

Path:rx5605\ yv0ah5a0

Path:rx5606\ yv0ah6a0

Path:rx5607\ yv0ah7a0

Path:rx5608\ yv0ah8a0

Path:rx5609\ yv0ah9a0

Path:rx560a\ yv0ahca0

Path:rx560b\ yv0ahda0

Path:rx560c\ yv0ahea0

Path:rx560d\ yv0ahfa0

Path:rx560e\ yv0ah8a1

Path:rx560f\ yv0ah9a1

Path:rx560g\ yv0ah0a2 or yv0ahaa0

Path:rx560h\ yv0ah1a2 or yv0ahba0

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6.3.1.5 Memory test

If you want to test memory, please run `./tserver -boardtest=memfa` or `./memtest.sh`
Path:rx560\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run `./atiflash -ai 0` or `./biosinfo`.
Path:rx560\

6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character.
Path:rx560\

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.

6.4 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).

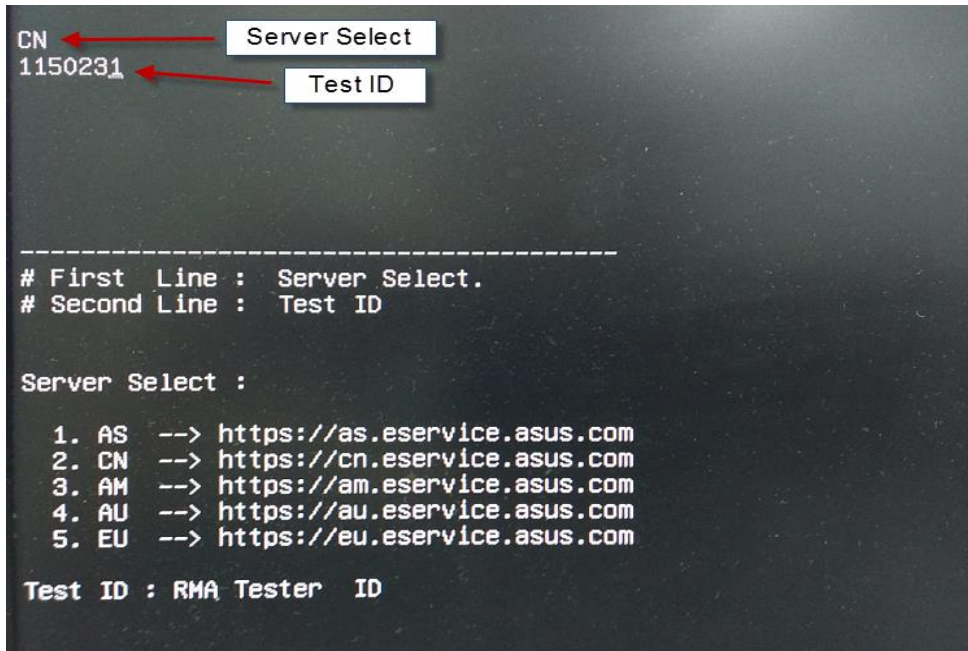
The tool of RMA upload tool include 3 files:



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
1150231

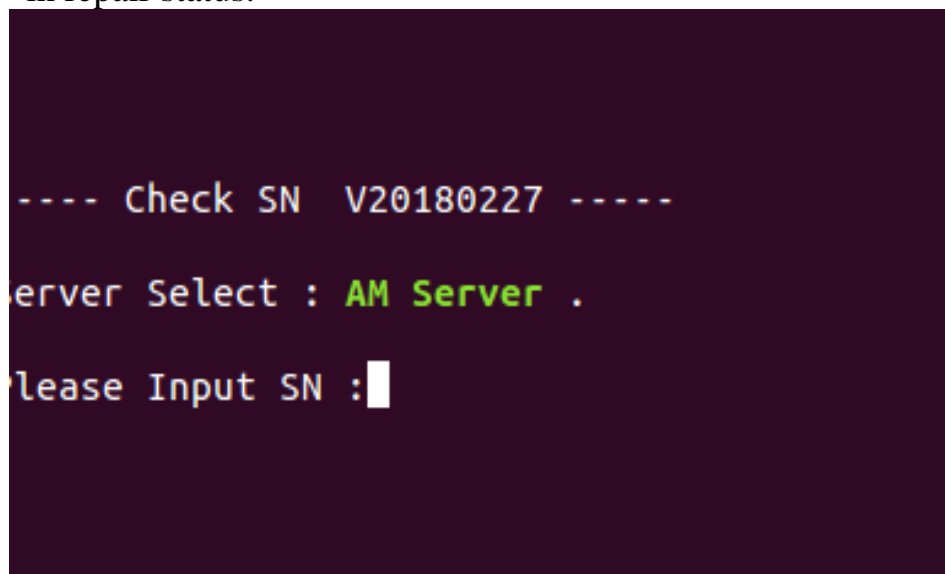
-----
# First Line : Server Select.
# Second Line : Test ID

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.



```

---- Check SN V20180227 ----

Server Select : AM Server .

Please Input SN :
  
```

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


```

Left      File      Command      Options      Right
<- /mnt/nv/UTinyLinux/gt1030 .[^>
'n      Name      Size      Modify time
*tegraboards.jse      22036      Apr 18      2017
*tegracom"unc.jse      11556      Apr 18      2017
*tegraperf.jse      26572      Apr 18      2017
*test.cfg      2107      Apr 18      2017
*test.sh      42325      Apr 18      2017
*testlist.jse      37240      Apr 18      2017
*thermal.jse      16568      Apr 18      2017
*tofile.jse      5600      Apr 18      2017
*tunetrim.jse      21924      Apr 18      2017
*tunevolt.jse      14036      Apr 18      2017
*vic_data.bin      16384      Apr 18      2017
*vp2_stre.bin      203520      Apr 18      2017
*yv0at0a0.sh      559      Apr 21      2017
*yv0at0a1.sh      559      Apr 21      2017
*yv0at1a0.sh      559      Apr 21      2017
*yv0at1a1.sh      559      Apr 21      2017
*yv0at0a1.sh
44G/75G (59%)
Hint: To use the mouse cut and paste may require holding the s
#
1_Help      2_Menu      3_View      4_Edit      5_Copy      6_RenMov      7_Mkdir      8_Delete

```

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

```
=====
=          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	
7	DDR4 2400 4G		local	2	
8	TEST HDD		local	1	
9	SATA HDD Cable		local	1	
10	Dual link DVI cable (Buying a local DVI cable by yourself)		local	1	
11	HDMI extend 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	